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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:49:04; Search time 23 Seconds
 (without alignments)
 298.533 Million cell updates/sec

Title: US-09-638-693-36
 Perfect score: 133
 Sequence: 1 QNEICLTHPITKYMAGMSA.....VIEPIVTINWQKLEAFWHKH 133

Scoring table: OLIGO Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :	Issued_Parents_AA:
1:	/cgn2_6/ptodata/2/iaa/5A_COMBO.PEP:*
2:	/cgn2_6/ptodata/2/iaa/5B_COMBO.PEP:*
3:	/cgn2_6/ptodata/2/iaa/6A_COMBO.PEP:*
4:	/cgn2_6/ptodata/2/iaa/6B_COMBO.PEP:*
5:	/cgn2_6/ptodata/2/iaa/PICTUS_COMBO.PEP:*
6:	/cgn2_6/ptodata/2/iaa/bckfile1..pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	4.8	36.1	128	1	US-09-244-116B-17	Sequence 17, App1
2	4.1	30.8	829	4	US-09-881-1239-5	Sequence 5, App1
3	4.1	30.8	1099	4	US-09-881-654-4	Sequence 4, App1
4	2.0	15.0	20	4	US-09-790-497A-104	Sequence 104, App1
5	2.0	15.0	22	2	US-09-146-028-107	Sequence 107, App1
6	2.0	15.0	22	3	US-08-723-425A-107	Sequence 107, App1
7	2.0	15.0	22	3	US-09-112-206-107	Sequence 107, App1
8	2.0	15.0	22	4	US-09-576-824A-104	Sequence 104, App1
9	1.9	14.3	19	1	US-08-244-116B-2	Sequence 2, App1
10	1.9	14.3	247	1	US-08-324-977-44	Sequence 44, App1
11	1.9	14.3	247	2	US-08-384-616-44	Sequence 44, App1
12	1.9	14.3	247	2	US-08-904-686A-44	Sequence 44, App1
13	1.9	14.3	247	3	US-09-315-850-44	Sequence 44, App1
14	1.9	14.3	631	1	US-08-700-356-1	Sequence 1, App1
15	1.9	14.3	631	2	US-08-936-865-1	Sequence 1, App1
16	1.9	14.3	632	3	US-09-198-723A-23	Sequence 23, App1
17	1.9	14.3	632	4	US-09-684-881-23	Sequence 23, App1
18	1.9	14.3	646	3	US-09-198-723A-60	Sequence 60, App1
19	1.9	14.3	646	3	US-09-723A-63	Sequence 63, App1
20	1.9	14.3	646	3	US-09-198-723A-66	Sequence 66, App1
21	1.9	14.3	646	3	US-09-198-723A-69	Sequence 69, App1
22	1.9	14.3	646	4	US-09-198-723A-72	Sequence 72, App1
23	1.9	14.3	646	4	US-09-684-881-60	Sequence 60, App1
24	1.9	14.3	646	4	US-09-684-881-63	Sequence 63, App1
25	1.9	14.3	646	4	US-09-684-881-66	Sequence 66, App1
26	1.9	14.3	646	4	US-09-684-881-69	Sequence 69, App1
27	1.9	14.3	646	4	US-09-684-881-72	Sequence 72, App1

ALIGNMENTS

RESULT 1
 US-08-244-116B-17
 ; Sequence 17, Application US/08244116B
 ; Patent No. F763159
 ; GENERAL INFORMATION:
 ; APPLICANT: Simmonds, Peter
 ; APPLICANT: Chan, Shiu-Wan
 ; APPLICANT: Yap, Peng L.
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 ; STREET: 1211 East Morehead Street
 ; CITY: Charlotte
 ; STATE: No. 5763159th Carolina
 ; COUNTRY: United States
 ; ZIP: 28224
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Parent In Release #1.0. Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/244-116B
 ; FILING DATE: 15-JULY-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB92/02143
 ; FILING DATE: 20-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sidney, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE DOCKET NUMBER: 1749-125
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 704-377-1561
 ; TELEFAX: 704-334-2014
 ; INFORMATION FOR SEQ ID NO: 17:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 128 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHETICAL: yes
 ; FRAGMENT TYPE: internal
 ; ORIGINAL SOURCE:
 ; ORGANISM: Hepatitis-C virus
 ; US-08-244-116B-17
 Query Match 36.1%; Score 48; DB 1; Length 128;

Best Local Similarity 100.0%; Pred. No. 3.2e-39;
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 MACMSADLEVTSTWVLGGVLAALAYCLSVGCVVIVGHIELGGKPA 62
 9 MACMSADLEVTSTWVLGGVLAALAYCLSVGCVVIVGHIELGGKPA 56

Db 15 MACMSADLEVTSTWVLGGVLAALAYCLSVGCVVIVGHIELGGKPA 62
 9 MACMSADLEVTSTWVLGGVLAALAYCLSVGCVVIVGHIELGGKPA 56

RESULT 2

US-09-881-239-5

Sequence 5, Application US/09881239

Patent No. 6630398

GENERAL INFORMATION:

APPLICANT: CHIEN, David Y.
 ATTORNEY: ARCANGL, Phillip
 INVENTION: TANDESKA, Laura
 GEORGE-NASCIMENTO, Carlos
 COIT, Doris
 APPLICANT: MEDINA-SELYB, Angelica
 TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY
 FILE REFERENCE: 2303-16073 / PP16073.003
 CURRENT APPLICATION NUMBER: US/09/881.239
 CURRENT FILING DATE: 2001-06-14
 SEQ ID NO: 5
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 5
 LENGTH: 829
 TYPE: PPT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: MEFA 12

US-09-881-239-5

Query Match Score 41; DB 4; Length 829;

Best Local Similarity 100.0%; Pred. No. 1.2e-31;

Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 98
 444 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 484Db 58 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 98
 444 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 484

RESULT 3

US-09-881-654-4

Sequence 4, Application US/09881654

Patent No. 6632601

GENERAL INFORMATION:

APPLICANT: CHIEN, David Y.
 ATTORNEY: ARCANGL, Phillip
 INVENTION: TANDESKA, Laura
 GEORGE-NASCIMENTO, Carlos
 COIT, Doris
 APPLICANT: MEDINA-SELYB, Angelica
 TITLE OF INVENTION: IMMUNOCASSAYS FOR ANTI-HCV ANTIBODIES
 FILE REFERENCE: 2302-17039 / PP17039.002
 CURRENT APPLICATION NUMBER: US/09/881.654
 PRIOR APPLICATION NUMBER: 2001-06-14
 PRIOR FILING DATE: 2000-06-15
 PRIOR APPLICATION NUMBER: 60/280, 811
 PRIOR FILING DATE: 2001-04-02
 PRIOR APPLICATION NUMBER: 60/280, 867
 PRIOR FILING DATE: 2001-04-02
 NUMBER OF SEQ ID NOS: 7
 SEQ ID NO: 4
 LENGTH: 1099
 TYPE: PPT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1

US-09-881-654-4

Query Match Score 41; DB 4; Length 1099;
 Best Local Similarity 100.0%; Pred. No. 1.5e-31;
 Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 98
 Db 746 GGKPAIVPDKEVLYQQYDMECSCQAAPPYIEAQVIAHOFK 788

US-09-790-497A-104

Application US/09790497A

Patent No. 6619735

GENERAL INFORMATION:

APPLICANT: De Levy, Robert
 INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OF BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE; A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 TITLE OF INVENTION: EPITOPE; A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 FILE REFERENCE: 2752-16
 CURRENT APPLICATION NUMBER: US/09/790, 497A
 CURRENT FILING DATE: 2001-02-23
 PRIOR APPLICATION NUMBER: 09/576, 824
 PRIOR FILING DATE: 2000-05-23
 PRIOR APPLICATION NUMBER: 08/723, 425
 PRIOR FILING DATE: 1996-09-30
 PRIOR APPLICATION NUMBER: 09/146, 028
 PRIOR FILING DATE: 1993-11-22
 PRIOR APPLICATION NUMBER: PCT/EP93/00517
 PRIOR FILING DATE: 1993-03-08
 PRIOR APPLICATION NUMBER: EP 92400598.6
 PRIOR FILING DATE: 1992-03-06
 NUMBER OF SEQ ID NOS: 600
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 104
 LENGTH: 20
 TYPE: PPT
 ORGANISM: Hepatitis C virus

US-09-790-497A-104

Query Match Score 20; DB 4; Length 20;

Best Local Similarity 100.0%; Pred. No. 9.9e-13;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGRPATVPDKEVLYQQYDDE 76
 Db 1 LGGRPATVPDKEVLYQQYDDE 20

RESULT 4

US-09-790-497A-107

Application US/09790497A

Patent No. 5891640

GENERAL INFORMATION:

APPLICANT: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE; A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE; A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 TITLE OF INVENTION: PEPTIDE; PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE AND THEIR USE IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPE; A PROCESS FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 NUMBER OF SEQUENCES: 453
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/146, 028
 INFORMATION FOR SEQ ID NO: 107:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 22 amino acids

/TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOSES AND THEIR
 /TITLE OF INVENTION: A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED
 /TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOSES,
 /TITLE OF INVENTION: PROCESSES FOR PREPARING THEM AND COMPOSITIONS CONTAINING THEM
 /NUMBER OF SEQUENCES: 453
 /COMPUTER READABLE FORM:
 /MEDIUM TYPE: Floppy disk
 /COMPUTER: IBM PC compatible
 /OPERATING SYSTEM: PC-DOS/MS-DOS
 /SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
 /CURRENT APPLICATION DATA:
 /APPLICATION NUMBER: US/09/112,206
 /FILING DATE:
 /PRIOR APPLICATION DATA:
 /APPLICATION NUMBER: US 08/146,028
 /FILING DATE:
 /INFORMATION FOR SEQ ID NO: 107:
 /SEQUENCE CHARACTERISTICS:
 /LENGTH: 22 amino acids
 /TYPE: amino acid
 /STRANDEDNESS: single
 /TOPOLOGY: linear
 /MOLECULE TYPE: Peptide
 /US-09-112-206-107
 Query Match 15.0%; Score 20; DB 2; Length 22;
 Best Local Similarity 100.0%; Pred. No. 1..1e-12;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Dy 57 LGGKPAIVPDKEVLYQQYDE 76
 Db 2 LGGKPAIVPDKEVLYQQYDE 21
 Db 2 LGGKPAIVPDKEVLYQQYDE 21
 RESULT 6
 US 08-723-425A-107
 Sequence 107, Application US/08723425A
 /GENERAL INFORMATION:
 /APPLICANT: DELEYE, ROBERT
 /TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF
 /PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
 /EPITOSES AND THEIR USE IN A PROCESS FOR DETERMINATION OF
 /NUMBER OF SEQUENCES: 453
 /CORRESPONDENCE ADDRESS:
 /ADDRESSEE: NIXON & VANDERHVE, P.C.
 /STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
 /CITY: Arlington
 /STATE: VA
 /ZIP: 22201
 /COUNTRY: USA
 /ATTORNEY/AGENT INFORMATION:
 /NAME: SADOFF, B.J.
 /REGISTRATION NUMBER: 3,6,663
 /REFERENCE/DOCKET NUMBER: 1487-13
 /TELECOMMUNICATION INFORMATION:
 /TELEPHONE: 703-816-4000
 /TELEFAX: 703-816-4100
 /SEQUENCE CHARACTERISTICS:
 /LENGTH: 22 amino acids
 /TYPE: amino acid
 /STRANDEDNESS: single
 /TOPOLOGY: linear
 /MOLECULE TYPE: peptide
 /US-08-723-425A-107
 Query Match 15.0%; Score 20; DB 3; Length 22;
 Best Local Similarity 100.0%; Pred. No. 1..1e-12;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Dy 57 LGGKPAIVPDKEVLYQQYDE 76
 Db 2 LGGKPAIVPDKEVLYQQYDE 21
 Db 2 LGGKPAIVPDKEVLYQQYDE 21
 RESULT 8
 US 09-776-824A-104
 Sequence 104, Application US/09576824A
 /GENERAL INFORMATION:
 /APPLICANT: De Leye, Robert
 /TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING
 /TO IMMUNOLOGICALLY IMPORTANT EPITOSES AND THEIR USE IN
 /N
 /PATENT NO. 6667387
 /SEQUENCE 104
 /PATENT FILING DATE: 2000-05-23
 /PRIOR APPLICATION NUMBER: 08/723,425
 /PRIOR FILING DATE: 1996-09-30
 /PRIOR APPLICATION NUMBER: 09/146,028
 /PRIOR FILING DATE: 1993-11-22
 /PRIOR APPLICATION NUMBER: PCT/JP93/00517
 /PRIOR FILING DATE: 1993-03-08
 /PRIOR APPLICATION NUMBER: EP 92400598.6
 /PRIOR FILING DATE: 1992-03-06
 /NUMBER OF SEQ ID NOS: 600
 /SOFTWARE: PatentIn Ver. 2.1
 /SEQ ID NO 104
 /LENGTH: 22
 /TYPE: PRT
 /FEATURE:
 /NAME/KEY: VARIANT
 /LOCATION: (1)
 /OTHER INFORMATION: modified site
 /NAME/KEY: VARIANT
 /LOCATION: (22)
 /OTHER INFORMATION: modified site
 /US-09-516-824A-104
 RESULT 7
 US 09-112-206-107
 Sequence 107, Application US/09112206
 /GENERAL INFORMATION:
 /PATENT NO. 6210903
 /OTHER INFORMATION: modified site

Query Match Similarity 15.0%; Score 20; DB 4; Length 22;
 Best Local Similarity 100.0%; Pred. No. 1.1e-12; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; ;

Qy 57 LGGKPATVPDKEVLYQQYDE 76
 Db 2 LGGKPATVPDKEVLYQQYDE 21

RESULT 9
 US-08-244-116B-2
 Sequence 2, Application US/08244116B
 Patent No. 5733159

GENERAL INFORMATION:
 APPLICANT: Simmonds, Peter
 APPLICANT: Chan, Shiu-Wan
 APPLICANT: Yap, Peng L.
 TITLE OF INVENTION: Hepatitis-C Virus Testing
 NUMBER OF SEQUENCES: 53

CORRESPONDENCE ADDRESS:
 ADDRESS: Bell, Seltzer, Park & Gibson, P.A.
 STREET: 1211 East Morehead Street
 CITY: Charlotte
 STATE: No. 5763159th Carolina
 COUNTRY: United States
 ZIP: 28214

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0. Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/244,116B
 FILING DATE: 15-JUL-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB92/02143
 FILING DATE: 20-NOV-1992
 ATTORNEY / AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 1749-125
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 704-377-1561
 TELEFAX: 704-377-2014
 INFORMATION FOR SEQ ID NO: 2:
 LENGTH: 19 amino acids
 TYPE: amino acid
 STRANDBNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 HYPOTHETICAL: NO
 FRAGMENT TYPE: internal
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis-C virus

US-08-244-116B-2

Query Match Similarity 14.3%; Score 19; DB 1; Length 19;
 Best Local Similarity 100.0%; Pred. No. 8.8e-12; Indels 0; Gaps 0;

Mismatches 19; Conservative 0; Mismatches 0; ;

Qy 79 ECSQQAPYEQAOVTIAHQF 97
 Db 1 ECSQQAPYEQAOVTIAHQF 19

RESULT 10
 US-08-324-977-44
 Sequence 44, Application US/08324977
 Patent No. 574739

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao

APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Iwao
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
 NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
 ADDRESSEE: Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703D
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 247 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-324-977-44

Query Match Similarity 14.3%; Score 19; DB 1; Length 247;
 Best Local Similarity 100.0%; Pred. No. 9.5e-11;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LTHPITKYMACHMSADLEV 24
 Db 22 LTHPITKYMACHMSADLEV 40

RESULT 11
 US-08-384-616-44
 Sequence 44, Application US/08384616
 Patent No. 5847101

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao

APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland & Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/384,616
 FILING DATE: 02-OCT-1991
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/1769,996
 FILING DATE: 02-OCT-1990
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens-Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 247 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-384-616-44

Query Match 14.3%; Score 19; DB 2; Length 247;
 Best Local Similarity 100.0%; Pred. No. 9 5e-11; Indels 0; Gaps 0;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LTHPITKYIMACMSADLEV 24
 Db 22 LTHPITKYIMACMSADLEV 40

RESULT 1.2

Query Match 14.3%; Score 19; DB 2; Length 247;
 Best Local Similarity 100.0%; Pred. No. 9 5e-11; Indels 0; Gaps 0;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LTHPITKYIMACMSADLEV 24
 Db 22 LTHPITKYIMACMSADLEV 40

TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland & Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-30997
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: McLeland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 247 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-904-686A-44

Query Match 14.3%; Score 19; DB 2; Length 247;
 Best Local Similarity 100.0%; Pred. No. 9 5e-11; Indels 0; Gaps 0;

Qy 6 LTHPITKYIMACMSADLEV 24
 Db 22 LTHPITKYIMACMSADLEV 40

RESULT 13

US-09-315-850-44

Sequence 44, Application US/09315850
 Patent No. 5998130

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
ADDRESS: Naughton Street: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990

ATTORNEY/AGENT INFORMATION:
NAME: McLeland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357

INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US 09-315-850-44

RESULT 14
Query Match 14.3%; Score 19; DB 3; Length 247;
Best Local Similarity 100.0%; Pred. No. 9.5e-11;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LTHPITKYMAGMSADLEY 24
Db 22 LTHPITKYMAGMSADLEY 40

RESULT 14
US 08-356-1
Sequence 1, Application US/08/00356
Patient No. 5739002
GENERAL INFORMATION:
APPLICANT: DE FRANCESCO, Raffaele
APPLICANT: FAILLA, Cristina

APPLICANT: TOMEI, Licia
TITLE OF INVENTION: METHOD FOR REPRODUCING IN VITRO THE
cDNA OF THE NS3 HEPATITIS C VIRUS (HCV)
TITLE OF INVENTION: PROTEOLYTIC ACTIVITY OF THE NS3 HEPATITIS C VIRUS (HCV)
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,356
FILING DATE: 23-AUG-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: DE FRANCESCO=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 631 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US 08-700-356-1

RESULT 15
US-08-936-865-1
Sequence 1, Application US/08936865
Patient No. 5861297
GENERAL INFORMATION:
APPLICANT: Sardana, Vinod V
TITLE OF INVENTION: DETERGENT-FREE HEPATITIS C PROTEASE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: MERCK & CO., INC.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: US
ZIP: 07065-0907

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,865
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ayler, Sylvia A
REGISTRATION NUMBER: 36,436

REFERENCE/DOCKET NUMBER: 19691
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-4909
TELEFAX: 908-594-4720
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 631 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Hepatitis C. Virus
STRAIN: NS3 Serine Protease Domain
INDIVIDUAL ISOLATE: BK
IMMEDIATE SOURCE:
LIBRARY: described by Tomai et al. in 1993
CLONE: cDNA clone pCD (38.9.4)
POSITION IN GENOME:
MAP POSITION: 1-180
US-08-936-865-1

Query Match 14.3%; Score 19; DB 2; Length 631;
Best Local Similarity 100.0%; Pred. No. 2.3e-10; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0;
Qy 6 LTHPITKYMACMSADLEV 24
Db 611 LTHPITKYMACMSADLEV 629

Search completed: February 25, 2004, 01:54:33
.Job time : 24 secs

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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:53:15 ; Search time 34 Seconds
 Perfect score: 133 (without alignments)
 Sequence: 825.982 Million cell updates/sec

Title: US-09-638-693-36

Scoring table: OLIGO Gapext 60.0 , Gapext 60.0

Searched: 809742 seqs, 21153259 residues

Word size : 0

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications-AA.*

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2: /cgn2_6/ptodata/2/pubpa/BCT_NEN_PUB.pep:*

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6: /cgn2_6/ptodata/2/pubpa/PCTUS_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pubpa/US08_NEW_PUB.pep:*

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12: /cgn2_6/ptodata/2/pubpa/US09_NEW_PUB.pep:*

13: /cgn2_6/ptodata/2/pubpa/US10A_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpa/US10B_PUBCOMB.pep:*

15: /cgn2_6/ptodata/2/pubpa/US10C_PUBCOMB.pep:*

16: /cgn2_6/ptodata/2/pubpa/US10C_NEW_PUB.pep:*

17: /cgn2_6/ptodata/2/pubpa/US60_NEW_PUB.pep:*

18: /cgn2_6/ptodata/2/pubpa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	133	100.0	133	10	US-09-899-046-36	Sequence 36, App1
2	133	100.0	133	10	US-09-899-046-36	Sequence 36, App1
3	98	73.0	133	10	US-09-899-046-38	Sequence 38, App1
4	98	73.0	133	10	US-09-899-046-40	Sequence 40, App1
5	98	73.0	133	10	US-09-899-046-38	Sequence 38, App1
6	98	73.0	133	10	US-09-899-046-38	Sequence 40, App1
7	98	73.0	133	10	US-09-899-046-223	Sequence 223, App1
8	98	73.0	209	10	US-09-899-046-223	Sequence 223, App1
9	52	39.1	133	10	US-09-899-046-32	Sequence 32, App1
10	52	39.1	133	10	US-09-899-046-34	Sequence 34, App1
11	52	39.1	133	10	US-09-899-046-34	Sequence 34, App1
12	52	39.1	133	10	US-09-899-046-32	Sequence 32, App1
13	48	36.1	128	14	US-10-396-904-17	Sequence 34, App1
14	41	30.8	829	9	US-09-881-239-5	Sequence 17, App1
15	41	30.8	1099	9	US-09-881-654-4	Sequence 4, App1

ALIGNMENTS

RESULT 1
 US-09-899-046-36
 ; Sequence 36, Application US-09899046
 ; Publication No. US20030008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899, 046
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 36:

; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 133 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-899-046-36
 Qy 1 ONEICITHPTKYMCMASDLEVTSTWLLGGYLAAAYCLSVGCVYVIGHILEGGK 60
 ; Query Match 100.0%; Score 133; DB 10; Length 133;
 ; Best Local Similarity 100.0%; Pred. No. 7.6e-121;
 ; Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 ONEICITHPTKYMCMASDLEVTSTWLLGGYLAAAYCLSVGCVYVIGHILEGGK 60
 Qy 61 PAIVPDKVELYQQYDEMECSQAAPIYEQVIAHQFKGVLYLQRATOQAVIPLPIV 120

Best Local Similarity 100.0%; Pred. No. 1.8e-42; Indels 0; Gaps 0; Publication No. US20020192639A1.

Matches 52; Conservative 0; Mismatches 0; Gaps 0; General Information:

QY 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: CHIEN, David Y.

Db 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: ARCANDEL, Phillip

General Information:

QY 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: TANDESE, Laura

Db 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: GEORGE-NASCIMENTO, Carlos

Correspondence Address:

QY 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: COIT, Doris

Db 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: MEDINA-SELBY, Angelica

Result 13

US-10-396-964-17

Sequence 17; Application US/10396964

Publication No. US20030198846A1

General Information:

QY 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Current Application Number: US/09/881,239

Db 11 TKYIMACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Current Filing Date: 2001-06-14

Number of SEQ ID NOS: 8

Software: PatentIn Ver. 2.0

SEQ ID NO 5

Length: 829

Type: PRT

Organism: Artificial Sequence

Feature:

Other Information: Description of Artificial Sequence: MEFA 12 US-09-881-239-5

Query Match 30.8%; Score 41; DB 9; Length 829;

Best Local Similarity 100.0%; Pred. No. 4e-31;

Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98

Result 15

US-09-881-654-4

Sequence 4; Application US/09881654

Patent No. US20020146685A1

General Information:

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Applicant: CHIEN, David Y.

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Applicant: ARCANDEL, Phillip

Classification:

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Applicant: TANDESE, Laura

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Applicant: GEORGE-NASCIMENTO, Carlos

Registration: MEDINA-SELBY, Angelica

Other Information: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES

Prior Application Data:

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Current Application Number: US/09/881,654

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Current Filing Date: 2001-06-14

Filing Date: 15-JUL-1994

Prior Application Data:

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Prior Application Number: US/09/881,654

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Prior Filing Date: 2000-06-15

Attorney/Agent Information:

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Prior Application Number: 2302-17039 / PP17039.002

Db 444 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98 ; Prior Application Number: US/09/881,654

Name: Sibley, Kenneth D.

Registration Number: 31,665

Reference/DoCKET Number: 1749-125

Telephone: 704-377-1561

Telex/Fax: 704-334-2014

Information for SEQ ID NO: 17:

Sequence Characteristics:

Length: 128 amino acids

Type: amino acid

Strand/Bendness:

Topology: linear

Molecule Type: Peptide

Hypothetical: yes

Fragment Type: internal

Original Source: Hepatitis-C virus

US-10-396-964-17

Query Match 36.1%; Score 48; DB 14; Length 128;

Best Local Similarity 100.0%; Pred. No. 1.3e-38; Mismatches 0; Indels 0; Gaps 0;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 MACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 62 ; Applicant: COIT, Doris

Db 9 MACMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIGHIELGGKPA 56 ; Applicant: MEDINA-SELBY, Angelica

Query Match 30.8%; Score 41; DB 9; Length 1099;

Best Local Similarity 100.0%; Pred. No. 5.2e-31;

Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 98

Db 748 GGKPAIVPDKEVLYQQYDDEMEECSQQASYIEQAQVIAHQFK 788

Result 14

US-09-881-239-5

Sequence 5; Application US/09881239

Search completed: February 25, 2004, 01:58:57

Job time : 35 secs

protein - nucleic search, using frame_plus_P2n model	US-09-638-693-36	February 27, 2004, 21:50:18 ; Search time 64 Seconds (without alignments)	Sequence 133 1 QNEICLTHPITKYIMACMSA.....VIEPIVTINWQKLEAFWHKH 133
on:	1153.257 Million cell updates/sec		
title:			
erfect score:	133		
quence:	1 QNEICLTHPITKYIMACMSA.....VIEPIVTINWQKLEAFWHKH 133		
oring table:	Xgapop 60.0 , Xgapext 60.0 Ygapop 60.0 , Ygapext 60.0 Fgapop 6.0 , Fgapext 7.0 Delop 6.0 , Delext 7.0		
searched:	682709 seqs, 277475446 residues		
rd size:	1		
al number of hits satisfying chosen parameters:	1360453		
minimum DB seq length: 0			
maximum DB seq length: 2000000000			
st-processing: Listing first 45 summaries			
Command line parameters:	-----		

ALIGNMENTS

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; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDBNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-16

Alignment Scores:
Pred. No.: 1.11e-40 Score: 48.00 Percent Similarity: 97.05% Best Local Similarity: 97.65% Query Match: 36.09% DB: 1

Alignment Scores:
Pred. No.: 1.11e-40 Score: 48.00 Percent Similarity: 97.05% Best Local Similarity: 97.65% Query Match: 36.09% DB: 1

US-09-638-693-36 (1-133) × US-08-244-116B-16 (1-367)
Qy 15 MetAlaCysMetSerAlaSerLeuGluValThrSerThrSerPheTyrValLeuGlyGly 34
Db 26 AUGGAAUGAAGCUAGCGUAACGCAACGGCCGCGGCGGCGGCGGCGGCGGCGGCG 85
Qy 35 ValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGlyCysValLeuValGlyHis 54
Db 86 GUCCUCUGKGCCCTAGCGGCCUAGCGGCCUAGCGGCCUAGCGGCCUAGCGGCCUAG 145
Qy 55 IleGluLeuGlyGlyLysProAlaLeuValProAspLysGluValLeuTyrGlnGlnIty 74
Db 146 AUAGAGCUGGGRGGAAAGGCCGAMU-CGTUCCAGAACGARGGUGGUAUCAACAA 204
Qy 74 rAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIle 94
Db 205 CGAUGAGAUGGAGAGGUGCCGCAAGCYGCCCAAUAUAGGAACAGCUCARGUTRAUACC 264
Qy 94 aHsGlnPhalys 98
Db 265 CCACCAAGUCAARG 277

RESULT 2
US-09-638-693-36 (1-133) × US-08-244-116B-16 (1-367)
; Sequence 4, Application US/09881239
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANDEL, Phillip
; APPLICANT: TANDESKA, Laura
; APPLICANT: GEORGE-NASCIEMTO, Carlos
; APPLICANT: COLT, Doris
; APPLICANT: MEDINA-SEIBY, Angelica
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
; FILE REFERENCE: 23302-17039 / PPN7039_002
; CURRENT APPLICATION NUMBER: US-09/881,654
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: 60/212,082
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/280,811
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/280,867
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3 LENGTH: 3297
; LENGTH: 3297
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1
; NAME/KEY: CDS
; LOCATION: (1)..(3297)
US-09-881-654-3

Alignment Scores:
Pred. No.: 1.36e-32 Score: 41.00 Percent Similarity: 100.00% Best Local Similarity: 100.00% Query Match: 30.83% DB: 4

US-09-638-693-36 (1-133) × US-09-881-654-3 (1-3297)
Qy 58 GlyGlyLysProAlaLeuValProAspLysGluValLeuTyrGlnGlnItyAspGluMet 77
Db 2242 GGGGCAAGCGGCCATCGTTCCACAGGTTGTATCAAATAGATGAGATG 2301
Qy 78 GluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe 97
Db 2302 GAAGATGTCACAGCTGCCCATATCGAACAGCTCGGTAAATAGCTCACCGTTC 2361

; LENGTH: 2499
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2487)
US-09-881-239-4

Alignment Scores:
Pred. No.: 1.04e-32 Score: 41.00 Percent Similarity: 100.00% Best Local Similarity: 100.00% Query Match: 30.83% DB: 41

US-09-638-693-36 (1-133) × US-09-881-654-3 (1-3297)
Qy 98 Lys 98
Db 2362 AAG 2364

```

RESULT 4
US-08-324-977-43
Sequence 43, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
ADDRESS: Naughton 1725 K St. N.W. Suite 1000
STREET: Washington
CITY: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 741 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE: misc feature
LOCATION: 1..741
OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
FEATURE: CDS
LOCATION: 1..741
OTHER INFORMATION: SEQ ID NO: 1"
NAME/KEY: CDS
LOCATION: 1..741
OTHER INFORMATION: single
FEATURE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19 Matches: 19
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indexes: 0
DB: 1 Gaps: 0

US-09-638-693-36 (1-133) x US-08-324,977-43 (1-741)

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCAACCCATAACAAATCATGGCATGATGCGCTGACTTGAGGTGTC 120

RESULT 5
US-08-384-616-43
; Sequence 43, Application US/08384616
; Patent No. 5841011
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE: misc feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; FEATURE: CDS
; LOCATION: 1..741
; OTHER INFORMATION: single
; FEATURE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA

FEATURE: misc_feature
 LOCATION: 1..741
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
 FEATURE: SEQ ID NO: 1"
 NAME/KEY: CDS
 LOCATION: 1..741
 US-09-384-616-43

Alignment Scores:
 Pred. No.: 1.2e-10
 Score: 19.00
 Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 14.29%
 DB: 2

US-09-638-693-36 (1-133) × US-08-384-616-43 (1-741)
 Qy 6 LeuThrHisProIleThrLysTrpIleMetAlaCysMetSerAlaAspLeuGluVal 24
 Db 64 CTCACCCACCCATAACCAATAATCATGGATCATGGCTGAGCTGAGGT 120

RESULT 6
 US-08-904-686A-43
 Sequence 43, Application US/08904686A
 Patent No. 5998130

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chihiro
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904, 686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324, 977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769, 996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635, 451

FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: McLeland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2330
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 43:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 741 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1..741
 OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
 OTHER INFORMATION: SEQ ID NO: 1"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..741
 US-08-904-686A-43

Alignment Scores:
 Pred. No.: 1.2e-10
 Score: 19.00
 Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 14.29%
 DB: 2

US-09-638-693-36 (1-133) × US-08-904-686A-43 (1-741)
 Qy 6 LeuThrHisProIleThrLysTrpIleMetAlaCysMetSerAlaAspLeuGluVal 24
 Db 64 CTCACCCACCCATAACCAATAATCATGGATCATGGCTGAGCTGAGGT 120

RESULT 7
 US-09-315-850-43
 Sequence 43, Application US/09315850
 Patent No. 6217872

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chihiro
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904, 686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324, 977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769, 996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635, 451

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/904, 686A
 FILING DATE: 01-AUG-1997
 APPLICATION NUMBER: US 08/324, 977
 FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McElland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
TOPOLOGY: linear
FEATURE: cDNA From genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..741
OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
US-09-315-850-43
LOCATION: 1..741

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) × US-09-315-850-43 (1-741)
US-09-198-723A-116
Sequence 116, Application US/09198723A
Patent No. 6211338
GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
APPLICANT: Weber, Patricia
APPLICANT: Yao, Nanhua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey

RESULT 8
US-09-198-723A-116
Sequence 116, Application US/09198723A
Patent No. 6211338
GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
APPLICANT: Weber, Patricia
APPLICANT: Yao, Nanhua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey

COUNTRY: USA
ZIP: 07030
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723A
FILING DATE: 24 NOV 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: McLaughlin, Jaye F.
REGISTRATION NUMBER: 41,211
REFERENCE/DOCKET NUMBER: JB0800
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 298-5056
TELEFAX: (908) 298-5388
INFORMATION FOR SEQ ID NO: 116:
SEQUENCE CHARACTERISTICS:
LENGTH: 1941 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1941
US-09-198-723A-116

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) × US-09-198-723A-116 (1-1941)

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATAATGGATGGCATGGCCACCTGGTC 1932

RESULT 9
US-09-198-723A-117
Sequence 117, Application US/09198723A
Patent No. 6211338
GENERAL INFORMATION:
APPLICANT: Malcolm, Bruce
APPLICANT: Weber, Patricia
APPLICANT: Taremi, Shahriar S.
APPLICANT: Yao, Nanhua
TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide
NUMBER OF SEQUENCES: 123
CORRESPONDENCE ADDRESS:
ADDRESSEE: Schering-Plough Corp.
STREET: 2000 Galloping Hill Road
CITY: Kenilworth
STATE: New Jersey
COUNTRY: USA
ZIP: 07030
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Power Macintosh
OPERATING SYSTEM: 8.0.1
SOFTWARE: Microsoft Word 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/198,723A
FILING DATE: 24 NOV 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.
 REFERENCE/DOCKET NUMBER: 41.211
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 298-5056
 TELEFAX: (908) 298-5388
 INFORMATION FOR SEQ ID NO: 117:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941
 US-09-198-723A-117

Alignment Scores:
 Pred. No.: 3e-10 Length: 1941
 Score: 19.00 Matches: 19
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 14.29% Indels: 0
 DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-118 (1-1941)

Qy 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
 Db 1876 CTCAACCCACCAATAACCAAAATACATCATGGCATGGCTCGGCCGACCTGGAGGT 1932

RESULT 11
 US-09-198-723A-119

Sequence 118 Application US/09198723A
 Patent No. 6211338

GENERAL INFORMATION:
 APPLICANT: Malcolm, Bruce
 ATTORNEY/AGENT INFORMATION:
 APPLICANT: Taremi, Shahriar S.
 ATTORNEY/AGENT INFORMATION:
 APPLICANT: Weber, Patricia
 ATTORNEY/AGENT INFORMATION:
 APPLICANT: Yao, Nanhua
 TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
 NUMBER OF INVENTIONS: NS3 Protease and NS4A Cofactor Peptide
 CURRENT APPLICATION DATA:
 CORRESPONDENCE ADDRESS:
 ADDRESS: Schering-Plough Corp.
 STREET: 2000 Galloping Hill Road
 CITY: Kenilworth
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07030

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Power Macintosh
 OPERATING SYSTEM: 8.0.1
 SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/198,723A
 FILING DATE: 24 NOV 1998
 CLASIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: McLaughlin, Jaye P.
 REGISTRATION NUMBER: 41,211
 REFERENCE/DOCKET NUMBER: JB0800
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 298-5056
 TELEFAX: (908) 298-5388
 INFORMATION FOR SEQ ID NO: 119:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941

US-09-198-723A-119

Alignment Scores:
 Pred. No.: 3e-10 Length: 1941
 Score: 19.00 Matches: 19
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 14.29% Indels: 0

DB: 3 Gaps: 0 ; GENERAL INFORMATION:
 US-09-638-693-36 (1-133) x US-09-198-723A-119 (1-1941) ; APPLICANT: Malcolm, Bruce
 Qy 6 LeuThrHisProIleThrIleTyrIleMetSerAlaCysMetSerAlaAspLeuGluVal 24 ; Taremi, Shahriar S.
 Weber, Patricia
 Db 1876 CTCACCCACCCATAACCAAAATACATGGCATGATGGCATGGCGAACCTGGAGGTC 1932 ;
 TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
 NUMBER OF SEQUENCES: 123 NS3 Protease and NS4A Cofactor Peptide

RESULT 12

CORRESPONDENCE ADDRESS:
 US-09-198-723A-120
 Sequence 120, Application US/09198723A
 Patent No. 6211338

GENERAL INFORMATION:
 APPLICANT: Weber, Patricia
 APPLICANT: Malcolm, Bruce
 APPLICANT: Taremi, Shahriar S.
 APPLICANT: Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
 NUMBER OF SEQUENCES: 123 NS3 Protease and NS4A Cofactor Peptide

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Schering-Plough Corp.
 STREET: 2000 Galloping Hill Road
 CITY: Kenilworth
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07030

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Power Macintosh
 OPERATING SYSTEM: 8.0.1
 SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/684,881
 FILING DATE: 06-Oct-2000
 CLASSIFICATION: Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/198,723
 FILING DATE: 24-Nov-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: McLaughlin, Jaye P.
 REGISTRATION NUMBER: 41,211
 REFERENCE/DOCKET NUMBER: JB0800
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908)298-5056
 FAX: (908)298-5388
 INFORMATION FOR SEQ ID NO: 116:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941
 SEQUENCE DESCRIPTION: SEQ ID NO: 116:
 US-09-684-881-116

Alignment Scores:
 Pred. No.: 3e-10 Length: 1941
 Score: 19.00 Matches: 19 ; Length: 1941
 Percent Similarity: 100.00% Conservat: 0
 Best Local Similarity: 100.00% Nmisches: 0
 Query Match: 14.29% Indels: 0
 DB: 4 Gaps: 0

RESULT 14

US-09-638-693-36 (1-133) x US-09-684-881-116 (1-1941)
 Sequence 117, Application US/09684881
 Paten No. 6653127

GENERAL INFORMATION:
 APPLICANT: Malcolm, Bruce
 Weber, Patricia
 APPLICANT: Taremi, Shahriar S.
 Weber, Patricia
 APPLICANT: Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
 NUMBER OF SEQUENCES: 123 NS3 Protease and NS4A Cofactor Peptide

RESULT 13

US-09-684-881-116
 Sequence 116, Application US/09684881
 Paten No. 6653127

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Schering-Plough Corp.
 STREET: 2000 Galloping Hill Road
 CITY: Kenilworth
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07030

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Power Macintosh
 OPERATING SYSTEM: 8.0.1
 SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:
 CURRENT APPLICATION DATA:
 NAME: McLaughlin, Jaye P.
 APPLICATION NUMBER: US/09/684, 881
 FILING DATE: 06-Oct-2000
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/198, 723
 FILING DATE: 24 Nov 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: McLaughlin, Jaye P.
 REGISTRATION NUMBER: 41, 211
 REFERENCE/DOCKET NUMBER: JBO800
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 298-5056
 TELEFAX: (908) 298-5388
 INFORMATION FOR SEQ ID NO: 117:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941
 SEQUENCE DESCRIPTION: SEQ ID NO: 118:
 US-09-684-881-118

SEQUENCE CHARACTERISTICS:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941
 SEQUENCE DESCRIPTION: SEQ ID NO: 117:
 US-09-684-881-117

Alignment Scores:
 Pred. No.: 3e-10 Length: 1941
 Score: 19.00 Matches: 19
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 14.29% Indels: 0
 Db: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-118 (1-1941)

Qy 6 LeuThrHisProIleThrLysTrileMetAlaCysMetSerAlaAspLeuGluVal 24
 Db 1876 CTGACCCACCCATAACAAATAATGGATGTGGCGAACCTGGAGGTC 1932

RESULT 15

US-09-684-881-118
 Sequence 118, Application US/09684881
 Patent No. 6653127

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce
 Taremi, Shahriar S.
 Weber, Patricia

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
 NUMBER OF SEQUENCE: 123
 CORRESPONDENCE ADDRESS:
 ADDRESSEEE: Schering-Plough Corp.
 STREET: 2000 Galloping Hill Road
 CITY: Kenilworth
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07030

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Power Macintosh
 OPERATING SYSTEM: 8.0.1
 SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:
 CURRENT APPLICATION DATA:
 NAME: McLaughlin, Jaye P.
 APPLICATION NUMBER: US/09/684, 881
 FILING DATE: 06-Oct-2000
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/198, 723
 FILING DATE: 24 Nov 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: McLaughlin, Jaye P.
 REGISTRATION NUMBER: 41, 211
 REFERENCE/DOCKET NUMBER: JBO800
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (908) 298-5056
 TELEFAX: (908) 298-5388
 INFORMATION FOR SEQ ID NO: 118:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1941 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1941
 SEQUENCE DESCRIPTION: SEQ ID NO: 118:
 US-09-684-881-118

Alignment Scores:
 Pred. No.: 3e-10 Length: 1941
 Score: 19.00 Matches: 19
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 14.29% Indels: 0
 Db: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-118 (1-1941)

STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 IMMEDIATE SOURCE:
 CLONE: BR36-20-164
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3...401
 SEQ-09-899-046-35

Alignment Scores:
 Score: 4.79e-134 Length: 401
 Percent Similarity: 100.00% Matches: 133
 Local Similarity: 100.00% Conservative: 0
 Query Match: 100.00% N mismatches: 0
 DB: 10 Indels: 0
 Gaps: 0

US-09-63B-693-36 (1-133) x US-09-899-046-35 (1-401)

Alignment Scores:
 Score: 4.79e-134 Length: 401
 Percent Similarity: 100.00% Matches: 133
 Local Similarity: 100.00% Conservative: 0
 Query Match: 100.00% N mismatches: 0
 DB: 10 Indels: 0
 Gaps: 0

US-09-63B-693-36 (1-133) x US-09-878-281-35 (1-401)

Alignment Scores:
 Score: 4.79e-134 Length: 401
 Percent Similarity: 100.00% Matches: 133
 Local Similarity: 100.00% Conservative: 0
 Query Match: 100.00% N mismatches: 0
 DB: 10 Indels: 0
 Gaps: 0

US-09-899-046-35

Alignment Scores:
 Score: 4.79e-134 Length: 401
 Percent Similarity: 100.00% Matches: 133
 Local Similarity: 100.00% Conservative: 0
 Query Match: 100.00% N mismatches: 0
 DB: 10 Indels: 0
 Gaps: 0

RESULT 2
 US-09-878-281-35
 Sequence 35, Application US/09878281
 Publication No. US20030032002A1

GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/878,281
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/362,455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 35:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs

RESULT 3
 US-09-899-046-37
 Sequence 37, Application US/09999046
 Publication No. US20030008274A1

GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/899,046
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/362,455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 37:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs

LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: BR36-20-166
 FEATURE: CDS
 LOCATION: 3 .. 401
 US-09-899-046-37

Alignment Scores:
 Pred. No.: 2.43e-36
 Score: 98.00
 Percent Similarity: 98.51%
 Best Local Similarity: 98.51%
 Query Match: 73.68%
 DB: 10

US-09-638-693-36 (1-133) × US-09-899-046-37 (1-401)

Qy	1 GlnAsnGluileCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20	US-09-638-693-36 (1-133) × US-09-899-046-39 (1-401)
Db	3 CAAATGAATCTGCTGACACCCCCATACGAAATTACATATGGCATATGTAGCT 62	Qy 1 GlnAsnGluileCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Qy	21 AspLeuGluValThrSerThrTrpValleAlaAlaAlaLeuAla 40	Db 3 CAAATGAATCTGCTGACACCCCCATACGAAATTACATATGGCATATGTAGCT 62
Db	63 GATCTGAAATGTAACCACCGACACTGGTTTGCTTGAGGGTCTCGGGCCCTAGCG 122	Qy 21 AspLeuGluValThrSerThrTrpValleLeuGlyGlyValleAlaAlaLeuAla 40
Qy	41 AlaTyrSylLeuSerValGlyCysvalvalleIvalGlyHisIleGluLenglyLys 60	Db 63 GATCTGAAATGTAACCACCGACACTGGTTTGCTTGAGGGTCTCGGGCCCTAGCG 122
Db	123 GCCTACTGCTTCAGTGGTGTGGTGTGGTATATCGAGCTGGGGCAAG 182	Qy 41 AlaTyrSylLeuSerValGlyCysvalvalleIvalGlyHisIleGluLenglyLys 60
Qy	61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80	Db 123 GCCTACTGCTTCAGTGGTGTGGTGTGGTATATCGAGCTGGGGCAAG 182
Db	183 CGGCANTGTCAGAACAGGTGTTGATAAAATAGATGAGATGGAAGATGC 242	Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80
Qy	81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValleAlaHisGlnInpnsLysGly-Ly 100	Db 183 CGGCANTGTCAGAACAGGTGTTGATAAAATAGATGAGATGGAAGATGC 242
Db	243 TCACAAGCTGCCCATATCGAACAGCTCAGGTGATAAGCTCACAGTCAA-GAAAAA 301	Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValleAlaHisGlnInpnsLysGly-Ly 100
Qy	100 sValLeuGlyLeuLeuGlnArgAlaIleGlnGlnAlaValleIleIleProlleValTh 120	Db 243 TCACAAGCTGCCCATATCGAACAGCTCAGGTGATAAGCTCACAGTCAA-GAAAAA 301
Db	302 AGTCCTGGATGCTGAGGGGCCACCAACACAGCTTCATGAGGCCATAGTAAC 361	Qy 100 sValLeuGlyLeuLeuGlnArgAlaIleGlnGlnAlaValleIleIleProlleValTh 120
Qy	120 rThrAsnTrpGlnLysLeuGluAlaIlePheTrpHisLysIshis 133	Db 302 AGTCCTGGATGCTGAGGGGCCACCAACACAGCTTCATGAGGCCATAGTAAC 361
Db	362 TACCAATGCGAAAGCTTGAGGCCCTTGGACACAGCAT 401	Qy 120 rThrAsnTrpGlnLysLeuGluAlaIlePheTrpHisLysIshis 133

RESULT 4
 US-09-899-046-39
 ; Sequence 39, Application US/09899046
 ; Publication No. US20030008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0., Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899, 046
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 09/362, 455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 39:

RESULT 5
 US-09-878-281-37
 ; Sequence 37, Application US/09878281
 ; Publication No. US20010032005A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0., Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878, 281
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362, 455
 ; FILING DATE:

INFORMATION FOR SEQ ID NO: 37:

SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDBNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

IMMEDIATE SOURCE:
 CLONE: BR36-20-166

FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401

US-09-878-281-37

Alignment Scores:
 Pred. No.: 2.43e-96 Length: 401
 Score: 98.00 Matches: 132
 Percent Similarity: 98.51% Conservative: 0
 Best Local Similarity: 98.51% Mismatches: 1
 Query Match: 73.68% Indels: 2
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) × US-09-878-281-37 (1-401)

Qy 1 GlnAsnGluLeuCysLeuThrHisProIleThrLysIleMetAlaCysMetSerAla 20
 Db 3 CAAATGAATCTGTCACACCCCCATCACAAATCATGGATGAGTCAAGCT 62

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuIleGlyValLeuAlaAlaLeuAla 40
 Db 63 GATCTGGAGTAaccACCAAGCACTGGTTTCTGAGGGTCCCGCCCTPAGCG 122

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuIleGluGlyGly 60
 Db 123 GCCTACTCTGTCACTGGTGTGTTGATGTTGCTCATATCGAGCTGGGGCCAAAG 182

Qy 61 ProAlaIleValProAspLysGluValLeuIleGluGlyGly 80
 Db 183 CGGGCAATCGTCCAGAACAGGGTGTGTATCAATAATAGATGATGGAAAGGTGC 242

Qy 81 SerGlnAlaAlaAlaProTyrIleGluGlnAlaGinValLeuAlaHisGlnPhenLysGly-LY 100
 Db 243 TCACAAAGTCGCCCATATACTGACAGCTCAGTGATGATGTCACAGTCAA-GGAAA 301

Qy 100 svalLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleLeuIleGluProIleValThr 120

Db 302 AGCCCTGGATGCTGAGGCCACCAAGCACAGCTCATCGGCCATAGTAAC 361

Qy 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysrHis 133
 Db 362 TACCAACTGGCAAAGCTTGGCACAAGCAT 401

RESULT 6
 US-09-878-281-39
 Sequence 39, Application US/09878281
 Publication No. US20030032005A1
 GENERAL INFORMATION:
 APPLICANT: New sequences of hepatitis C virus
 TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDBNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: BR36-20-165

FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401

US-09-878-281-39

Alignment Scores:
 Pred. No.: 2.43e-96 Length: 401
 Score: 98.00 Matches: 132
 Percent Similarity: 98.51% Conservative: 0
 Best Local Similarity: 98.51% Mismatches: 1
 Query Match: 73.68% Indels: 2
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) × US-09-878-281-39 (1-401)

Qy 1 GlnAsnGluLeuCysLeuThrHisProIleThrLysIleMetAlaCysMetSerAla 20
 Db 3 CAAATGAATCTGTCACACCCCCATCACAAATCATGGATGAGTCAAGCT 62

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuIleGlyValLeuAlaAlaLeuAla 40
 Db 63 GATCTGGAGTAaccACCAAGCACTGGTTTCTGAGGGTCCCGCCCTPAGCG 122

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuIleGluGlyGly 60
 Db 123 GCCTACTCTGTCACTGGTGTGTTGATGTTGCTCATATCGAGCTGGGGCCAAAG 182

Qy 61 ProAlaIleValProAspLysGluValLeuIleGluGlyGly 80
 Db 183 CGGGCAATCGTCCAGAACAGGGTGTGTATCAATAATAGATGATGGAAAGGTGC 242

Qy 81 SerGlnAlaAlaAlaAlaProTyrIleGluGlnAlaGinValLeuAlaHisGlnPhenLysGly-LY 100
 Db 243 TCACAAAGTCGCCCATATACTGACAGCTCAGTGATGATGTCACAGTCAA-GGAAA 301

Qy 100 svalLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleLeuIleGluProIleValThr 120

Db 302 AGCCCTGGATGCTGAGGCCACCAAGCACAGCTCATCGGCCATAGTAAC 361

Qy 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysrHis 133
 Db 362 TACCAACTGGCAAAGCTTGGCACAAGCAT 401

RESULT 7
 US-09-899-046-222
 Sequence 222, Application US/09899046
 Publication No. US2003008274A1
 GENERAL INFORMATION:
 APPLICANT: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/878, 281
 FILING DATE:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/362, 455
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/362, 455

APPLICATION NUMBER: 08/362,455
 FILING DATE: 08/362,455
 SEQUENCE CHARACTERISTICS:
 LENGTH: 629 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE: CDS
 NAME/KEY: mat_peptide
 LOCATION: 3..629

Alignment Scores:
 Pred. No.: 3.68e-96
 Score: 98.00
 Percent Similarity: 98.51%
 Best Local Similarity: 98.51%
 Query Match: 73.68%
 DB: 10

US-09-638-693-36 (1-133) x US-09-899-046-222 (1-629)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 231 CAAATGAATCTGCTGACACRCCCCATCACAAAATCATGGCATGTCAAGCT 290

Qy 21 AspLeuGluValThrThrSerThrTerPheLeuGlyValLeuAlaAlaLeuAla 40
 Db 291 GATCTGGAGTAACCAAGCACTGGTTTCCTGGCCCTAACGGCT 350

Qy 41 AlaTyrCysLeuSerValGlyCysValIleValGlyHisIleGluLeuGlyLys 60
 Db 351 GCCTACTCTTGTCAGTGGCTCTGCTGATGTGCCTCATATCGAGTGGCAAG 410

Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnIntyTaspGluMetGluCys 80
 Db 411 CGGCCAATCGTTCAGACAAGAGTTGTTGATCAACATAGATGAGATGAGTC 470

Qy 81 SerGlnAlaAlaIleGluGlnAlaGlnValLeAlaHisGlnPhenylsGly-Ly 100
 Db 471 TCACAAAGCTGCCCATATATCGAACAGCTCGATTAGTCACAGCTCAA-GAAA 529

Qy 100 svalLeuIleLeuGlnArgAlaIleGlnGlnAlaValIleGluProIleValTh 120
 Db 530 AGCCCTGGATGCTGAGGCCACCAACAGCTGTCATAGGCCATAGTAAAC 589

Qy 120 rThrAsnTrpGlnLysLeuGlnAlaIlePheTrpHisLysHis 133
 Db 590 TACCAACTGGCAAAAGCTTGAAGCCTTGGCATCANGCAT 629

RESULT 8
 US-09-878-281-222
 Sequence 222, Application US/09878281
 Publication No. US200302005A1

GENERAL INFORMATION:
 APPLICANT: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/878,281

GENERAL INFORMATION:
 APPLICANT: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

RESULT 9
 US-09-899-046-31
 Sequence 31, Application US/09899046
 Publication No. US200300824A1

GENERAL INFORMATION:
 APPLICANT: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/899, 046
 FILING DATE:
 PRIORITY APPLICATION DATA:
 INFORMATION FOR SEQ ID NO: 31:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: HD10-1-3
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401
 US-09-899-046-33

Alignment Scores:
 Pred. No.: 8.72e-47 Length: 401
 Score: 52.00 Matches: 87
 Percent Similarity: 97.75% Conservative: 0
 Best Local Similarity: 97.75% Mismatches: 1
 Query Match: 39.10% Indels: 2
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-33 (1-401)

core:
 8.72e-47 Length: 401
 52.00 Matches: 87
 97.75% Conservative: 0
 1 Mismatches: 1
 39.10% Indels: 2
 10 Gaps: 0

Information for sequence 31:
 11 ThrIlysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30
 33 ACAAAATACATTATGCCATGTCACTGGAACTTAACCACGGCACTGGTC 92

Y 31 LeuLeuGlyValLeuAlaAlaLeuAlaAlaTyrCysIeuSerValGlyCysValYal 50
 93 TGGCTTGAGGGTCCCTGGGCCCTAGGGCTACTGCTTGTCAGCGCTGTTGA 152

Y 51 IleValGlyHistIleGluLeuGlyLysProAlaIleValProAspLeuGluVal 70
 153 ATCGGGTCATATGAGCTAGAAGCAGAACAGAGGGTT 211

Y 70 UTyrglnGlnTrpAspGluMetGluGlyCysSerGlnAlaAlaProTyrlleGluGlnAl 90
 212 GTATCAAACGATGAGATGAGATGGAGGCTGCAAGGCCCATACATGAAACAGC 271

RESULT 11
 US-09-878-281-31
 Sequence 31, Application US/09878281
 Publication No. US200300312005A1

GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 FILING DATE:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/09/899, 046
 FILING DATE:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/362, 455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 31:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: HD10-1-3
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401
 US-09-899-046-33

Alignment Scores:
 Pred. No.: 8.72e-47 Length: 401
 Score: 52.00 Matches: 87
 Percent Similarity: 97.75% Conservative: 0
 Best Local Similarity: 97.75% Mismatches: 1
 Query Match: 39.10% Indels: 2
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-33 (1-401)

core:
 8.72e-47 Length: 401
 52.00 Matches: 87
 97.75% Conservative: 0
 1 Mismatches: 1
 39.10% Indels: 2
 10 Gaps: 0

Information for sequence 31:
 11 ThrIlysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30
 33 ACAAAATACATTATGCCATGTCACTGGAACTTAACCACGGCACTGGTC 92

Y 31 LeuLeuGlyValLeuAlaAlaLeuAlaAlaTyrCysIeuSerValGlyCysValYal 50
 93 TGGCTTGAGGGTCCCTGGGCCCTAGGGCTACTGCTTGTCAGCGCTGTTGA 152

Y 51 IleValGlyHistIleGluLeuGlyLysProAlaIleValProAspLeuGluVal 70
 153 ATCGGGTCATATGAGCTAGAAGCAGAACAGAGGGTT 211

Y 70 UTyrglnGlnTrpAspGluMetGluGlyCysSerGlnAlaAlaProTyrlleGluGlnAl 90
 212 GTATCAAACGATGAGATGAGATGGAGGCTGCAAGGCCCATACATGAAACAGC 271

RESULT 11
 US-09-878-281-31
 Sequence 31, Application US/09878281
 Publication No. US200300312005A1

GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 FILING DATE:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/09/899, 046
 FILING DATE:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/362, 455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 31:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: HD10-1-3
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401
 US-09-899-046-33

Mon Mar 1 14:57:10 2004

usb-09-638-693-36.rnpb

Page 9

Search completed: February 27, 2004, 23:48:54
Job time : 255 secs

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GenCore version 5.1.6

OM protein - protein search, using sw mode!

Run on: February 25, 2004, 01:46:44 ; Search time 22 Seconds
 (without alignments)
 312.102 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEITLTHPTKTYIMACMSA.....VIEPIVTINWQKLEAFWHKH 133

Scoring table: BLOSUM62

Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:
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 2: /cgm2_6/_ptodata/2/iaa/5B_COMB.dep:
 3: /cgm2_6/_ptodata/2/iaa/6A_COMB.dep:
 4: /cgm2_6/_ptodata/2/iaa/6B_COMB.dep:
 5: /cgm2_6/_ptodata/2/iaa/PCTUS_COMB.dep:
 6: /cgm2_6/_ptodata/2/iaa/backfiles.dep:
 *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	572	81.8	128	1	US-08-244-116B-17	Sequence 17, Appl
2	53.9	77.1	3012	3	US-08-811-566-2	Sequence 2, Appl
3	53.9	77.1	3012	4	US-09-034-756-2	Sequence 2, Appl
4	53.4	76.4	313	2	US-08-483-695-45	Sequence 45, Appl
5	53.4	76.4	313	2	US-07-965-285-45	Sequence 45, Appl
6	53.4	76.4	313	2	US-08-487-231-45	Sequence 45, Appl
7	53.4	76.4	313	3	US-09-201-912-45	Sequence 45, Appl
8	53.4	76.4	382	3	US-08-444-818-68	Sequence 68, Appl
9	53.4	76.4	460	3	US-08-444-818-20	Sequence 20, Appl
10	53.4	76.4	460	3	US-08-867-611-47	Sequence 21, Appl
11	53.4	76.4	592	4	US-09-690-359-47	Sequence 47, Appl
12	53.4	76.4	594	3	US-08-867-611-48	Sequence 48, Appl
13	53.4	76.4	594	4	US-09-359-48	Sequence 48, Appl
14	53.4	76.4	597	3	US-08-867-611-16	Sequence 16, Appl
15	53.4	76.4	597	4	US-09-690-359-16	Sequence 16, Appl
16	53.4	76.4	597	5	PCT-US92-0696SA-21	Sequence 21, Appl
17	53.4	76.4	599	3	US-08-867-611-18	Sequence 18, Appl
18	53.4	76.4	599	4	US-09-690-359-18	Sequence 18, Appl
19	53.4	76.4	599	5	PCT-US92-0696SA-23	Sequence 18, Appl
20	53.4	76.4	613	3	US-08-867-611-49	Sequence 23, Appl
21	53.4	76.4	613	4	US-09-690-359-49	Sequence 49, Appl
22	53.4	76.4	739	3	US-08-444-818-148	Sequence 49, Appl
23	53.4	76.4	859	3	US-08-444-818-30	Sequence 148, Appl
24	53.4	76.4	971	3	US-08-867-611-52	Sequence 52, Appl
25	53.4	76.4	971	4	US-09-359-52	Sequence 52, Appl
26	53.4	76.4	973	3	US-08-867-611-53	Sequence 53, Appl
27	53.4	76.4	973	4	US-09-690-359-53	Sequence 53, Appl

ALIGNMENTS

RESULT 1
 US-08-244-116B-17
 ; Sequence 17, Application US/08244-116B
 ; Patent No. 5763159
 ; GENERAL INFORMATION:
 ; APPLICANT: Simmonds, Peter
 ; APPLICANT: Chan, Shiu-Wan
 ; APPLICANT: Yap, Peng L.
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 ; STREET: 1211 East Morehead Street
 ; CITY: Charlotte
 ; STATE: No. 5763159th Carolina
 ; COUNTRY: United States
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0. Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/244-116B
 ; FILING DATE: 15-JUL-1994
 ; CLASSIFICATION: 435
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB92/02143
 ; FILING DATE: 20-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; RECOMMENDATION NUMBER: 1749-125
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 704-377-1561
 ; TELEFAX: 704-334-2014
 ; INFORMATION FOR SEQ ID NO: 17:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 128 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHETICAL: Yes
 ; FRAGMENT TYPE: internal
 ; ORIGINAL SOURCE:
 ; ORGANISM: Hepatitis-C virus
 ; US-08-244-116B-17
 Query Match 81.8%; Score 572; DB 1; Length 128;

Best Local Similarity 94.9%; Pred. No. 3 5e-59;
 Matches 111; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 RESULT 3
 US-09-034-756-2

Qy 8 HPITKYIMACMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHIELGGKPAIVPDK 67
 Db 2 HPXXXYANCMCMSADLEVTSTWLLGGVLAALAYCLSVGCIVVGHIELGGKPAIVPDK 61

Qy 68 EVIYQQDMEBECSSQAAPYIEAQVIAHCFGKVGLQRAOOQAVIEPIVTTNWQ 124
 Db 62 EVIYQQDMEBECSSQAAPYIEAQVIAHCFGKVGLQRAOOQAVIEPIVTTNWQ 118

RESULT 2
 US-08-811-566-2

Sequence 2 Application US/08811566
 Patent No. 6127116

GENERAL INFORMATION
 APPLICANT: Rice, Charles et al.

TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C

NUMBER OF SEQUENCES: 21

CORRESPONDENCE ADDRESS:
 ADDRESS SEE: David A. Jackson, Esq.

STREET: 411 Hackensack Ave, Continental Plaza, 4th

STREET: Floor

CITY: Hackensack

STATE: New Jersey

COUNTRY: USA

ZIP: 07601

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/811,566

FILING DATE: 03-MAR-1997

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Jackson Esq., David A.

REGISTRATION NUMBER: 26,742

REFERENCE/DOCKET NUMBER: 11113-1-006

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-487-5500

TELEFAX: 201-343-1684

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 3012 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

FRAGMENT TYPE: N-terminal

US-08-811-566-2

SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-09-034-756-2

Query Match 77.1% Score 539; DB 3; Length 3012;

Best Local Similarity 75.9%; Pred. No. 1.8e-53;

Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

Db 1752 TNWQKLEFWKHK 133

RESULT 4
 US-08-483-695-45

Sequence 45, Application US/08483695

Patent No. 5866139

GENERAL INFORMATION:

APPLICANT: Brechot, Christian

APPLICANT: Kramsdorf, Diana

APPLICANT: Porchon, Colette

TITLE OF INVENTION: Nucleotide and Peptide Sequences of a Hepatitis C Virus Isolate, Diagnostic and Therapeutic

TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic Applications

NUMBER OF SEQUENCES: 46

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20005-3315

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/965,285
 FILING DATE: 18-MAR-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/965,285
 FILING DATE: 18-MAR-1993
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE DOCKET NUMBER: 03286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 45:
 SEQUENCE CHARACTERISTICS:
 NAME: Meyers, Kenneth J.
 LENGTH: 313 amino acids
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 45:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 313 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-483-695-45

Query Match 76.4%; Score 534; DB 2; Length 313;
 Best Local Similarity 74.4%; Prod. No. 3.3e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 60
 Db 178 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 237

Query Match 76.4%; Score 534; DB 2; Length 313;
 Best Local Similarity 74.4%; Prod. No. 3.3e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 60
 Db 178 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 237

Query Match 76.4%; Score 534; DB 2; Length 313;
 Best Local Similarity 74.4%; Prod. No. 3.3e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 60
 Db 178 QNEITLTHPTKTYIMACMSADLEVTTSTWLLGGVLAAAYCLSVCCVIVGHIELGGK 237

RESULT 6
 US-08-487-231-45
 Sequence 45, Application US/08487231

GENERAL INFORMATION:
 APPLICANT: Brechot, Christian
 INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic Applications
 NUMBER OF SEQUENCES: 46
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20005-3315

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/487,231
 FILING DATE: 07-JUNE-1995

RESULT 5
 US-07-365-285-45
 Sequence 45, Application US/07965285

GENERAL INFORMATION:
 APPLICANT: Brechot, Christian
 INVENTION: Nucleotide and Peptide Sequences of a Hepatitis C Virus Isolate, Diagnostic and Therapeutic Applications
 NUMBER OF SEQUENCES: 46
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: DC
 COUNTRY: USA

CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/965,285
 FILING DATE: 18-MAR-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 91 06 882
 FILING DATE: 06-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 05286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000
 TELEX: 202-408-400
 FAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 45:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 313 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-487-231-45

Query Match 76.4%; Score 534; DB 3; Length 313;
 Best Local Similarity 74.4%; Pred. No. 3.3e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEICLTHPITKYMAGMSADLEVTSTWVLGGVNLALAAYCLSVGCVVGHIBLGKK 60
 Db 178 QNEITLTHPITKIMTMSADLEVTSTWVLGGVNLALAAYCLSVGCVVGRVILSGK 237

Qy 61 PAIPDPKEVLYQQYDMEECMCSQAHPIYEQGMMLAEQFKQALGLQTASRQEVIAPAVE 120
 Db 238 PAIPDPKEVLYQQYDMEECMCSQHLPIYEQGMMLAEQFKQALGLQTASRQEVIAPAVE 297

Qy 121 TNWQKLEFWHKH 133
 Db 298 TNWQKLEFWHKH 310

RESULT 8
 US-08-444-818-68
 Sequence 68, Application US/08444818
 Patent No. 6150087

GENERAL INFORMATION:
 APPLICANT: Chien, David Y.
 ATTORNEY/AGENT INFORMATION:
 Rutter, David Y.
 TITLE OF INVENTION: NANBV Diagnostics and Vaccines
 NUMBER OF SEQUENCES: 777

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: CA
 COUNTRY: USA
 ZIP: 94608-2916

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,818
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/403,590
 FILING DATE: 14-MAR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Harbin, Alisa A.
 REGISTRATION NUMBER: 33,895
 REFERENCE/DOCKET NUMBER: 0110-002

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508) 359-3876
 TELEX: (508) 359-3885
 INFORMATION FOR SEQ ID NO: 68:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 382 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-444-818-68

CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/965,285
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:

Query Match 1 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 60 Score 534; DB 3; Length 382;
 Best Local Similarity 76.4%; Pred. No. 4.3e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 60
 Db 78 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 137

Qy 61 PAIVPDKEVLYQQYDEMEECQSAAPYIEQAQVIAHQFKGVYLGLICRATOOAVIEPIVT 120
 Db 138 PAIVPDKEVLYQQYDEMEECQSAAPYIEQAQVIAHQFKGVYLGLICRATOOAVIEPIVT 197

Qy 121 TNWQKLEFWHKH 133
 Db 198 TNWQKLEFWHKH 210

RESULT 9 US-08-444-818-20
 ; Sequence 20, Application US/08444818
 ; Patent No. 6150087
 ; GENERAL INFORMATION:
 ; APPLICANT: Rutter, William J.
 ; TITLE OF INVENTION: NABIV Diagnostics and Vaccines
 ; NUMBER OF SEQUENCES: 777
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Chiron Corporation
 ; STREET: 4560 Horton Street
 ; CITY: Emeryville
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94608-5916
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/444,818
 ; FILING DATE: 02-JUN-1997
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/403,590
 ; FILING DATE: 14-MAR-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Harbin, Alisa A.
 ; REGISTRATION NUMBER: 33,895
 ; REFERENCE/DOCKET NUMBER: 0110.002
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (508)359-3876
 ; TELEFAX: (508)359-3885
 ; INFORMATION FOR SEQ ID NO: 20:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 460 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ;
 US-08-444-818-20

Query Match 1 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 60 Score 534; DB 3; Length 460;
 Best Local Similarity 74.4%; Pred. No. 5.5e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 60
 Db 162 QNEICHTHPITKYMCMASDIEVTSTWVLLGGVLAALAYCLSYGCVYVGHIELGGK 221

Qy 61 PAIVPDKEVLYQQYDEMEECQSAAPYIEQAQVIAHQFKGVYLGLICRATOOAVIEPIVT 120
 Db 222 PAIVPDKEVLYQQYDEMEECQSAAPYIEQAQVIAHQFKGVYLGLICRATOOAVIEPIVT 281

Query Match 76.4%; Score 534; DB 3; Length 592;
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;
 Matches 99; Conservative 12; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTIKYIMACNSADLEVTTSWVLLGGYLAAYAAYCLSVGVIVGHIELGGK 60
 Db 288 ONEITLTHTFVTKYIMTCMSADLEVTTSWVLCVLLAAAYAAYCLSTGVIVGRRVLSGK 347

Qy 61 PAIPDKEVLYQQYDEMECSQAPYIEAQVIAHQFKGKVLLQRATQQAVIEPIVT 120
 Db 348 PAIPDREVLYREFDEMEECSQHLPYIEGMMLAEQFKOKALGQLTASRQEVTAPAVQ 407

Qy 121 TNWQKLEAFWHKH 133
 Db 408 TNWQKLEAFWHKH 420

RESULT 11
 Sequence 47. Application US/09690359
 Patent No. 6593403

GENERAL INFORMATION:
 APPLICANT: DEVARE, SUSHIL G
 DESAI, SURESH M
 CASEY, JAMES M
 DAILEY, STEPHEN H
 DAWSON, GEORGE J
 GUTIERREZ, ROBIN A
 LESNIIEWSKI, RICHARD R
 STEWART, JAMES L
 RUPPRECHT, KEVIN R

TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS

NUMBER OF SEQUENCES: 59
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ABBOTT LABORATORIES
 STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
 CITY: ABBOTT PARK
 STATE: IL
 COUNTRY: USA
 ZIP: 60064-3500

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/690,359
 FILING DATE: 17-Oct-2000
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/867,611
 FILING DATE: 02-JUN-1997
 APPLICATION NUMBER: US/08/646,757
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/08/179,896
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/07/572,822
 FILING DATE: 24-AUG-1990
 APPLICATION NUMBER: US/07/614,069
 FILING DATE: 07-NOV-1990
 APPLICATION NUMBER: US/07/748,561
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,565
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,566
 FILING DATE: 21-AUG-1991

ATTORNEY/AGENT INFORMATION:
 NAME: POREMBSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-917-6365
 TELEFAX: 708-937-9556
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 592 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 47:
 US-09-690-359-47

Query Match 76.4%; Score 534; DB 4; Length 592;
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;
 Matches 99; Conservative 12; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTIKYIMACNSADLEVTTSWVLLGGYLAAYAAYCLSVGVIVGHIELGGK 60
 Db 288 ONEITLTHTFVTKYIMTCMSADLEVTTSWVLCVLLAAAYAAYCLSTGVIVGRRVLSGK 347

Qy 61 PAIPDKEVLYQQYDEMECSQAPYIEAQVIAHQFKGKVLLQRATQQAVIEPIVT 120
 Db 348 PAIPDREVLYREFDEMEECSQHLPYIEGMMLAEQFKOKALGQLTASRQEVTAPAVQ 407

RESULT 12
 Sequence 48. Application US/08867611
 Patent No. 6121189

GENERAL INFORMATION:
 APPLICANT: DEVARE, SUSHIL G
 APPLICANT: DESSAI, SURESH M
 APPLICANT: CASEY, JAMES M
 APPLICANT: DAILEY, STEPHEN H
 APPLICANT: DAWSON, GEORGE J
 APPLICANT: GUTIERREZ, ROBIN A
 APPLICANT: LESNIIEWSKI, RICHARD R
 APPLICANT: STEWART, JAMES L
 APPLICANT: RUPPRECHT, KEVIN R
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT NUMBER OF SEQUENCES: 59
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ABBOTT LABORATORIES
 STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
 CITY: ABBOTT PARK
 STATE: IL
 COUNTRY: USA
 ZIP: 60064-3500
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/690,359
 FILING DATE: 17-Oct-2000
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/867,611
 FILING DATE: 02-JUN-1997
 APPLICATION NUMBER: US/08/646,757
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/08/179,896
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/07/572,822
 FILING DATE: 24-AUG-1990
 APPLICATION NUMBER: US/07/614,069
 FILING DATE: 07-NOV-1990
 APPLICATION NUMBER: US/07/748,561
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,565
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,566
 FILING DATE: 21-AUG-1991

ATTORNEY/AGENT INFORMATION:
 NAME: POREMBSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:

SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/867,611
 FILING DATE: 02-JUN-1997
 APPLICATION NUMBER: US/08/867,611
 FILING DATE: 02-JUN-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/646,757
 FILING DATE:
 APPLICATION NUMBER: US/08/179,896
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/572,822
 FILING DATE: 24-AUG-1990
 APPLICATION NUMBER: US/07/614,069
 FILING DATE: 07-NOV-1990
 APPLICATION NUMBER: US/07/748,561
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,565
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US/07/748,566
 FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,561
 FILING DATE: 21-AUG-1991
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,565
 FILING DATE: 21-AUG-1991
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,566
 FILING DATE: 21-AUG-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: FOREMSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 708-937-6365
 TELEFAX: 708-937-9556
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 594 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-867-611-48

Query Match 76.4%; Score 534; DB 3; Length 594;
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKTYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 60
 Db 290 ONEIITLTHPTKTYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGRVVLSGK 349

Qy 61 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQBATQQAVIEPIVT 120
 Db 350 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQATQQAVIEPIVT 409

Qy 121 TNWQKLEAFWHKH 133
 Db 410 TNWQKLEAFWHKH 422

RESULT 13
 US-09-690-259-48
 ; Sequence 48, Application US/09690359
 ; Patent No. 6593083
 ; GENERAL INFORMATION:
 ; APPLICANT: DEVARE, SUSHIL G
 ; DESAI, SURESH M
 ; CASEY, JAMES M
 ; DAILEY, STEPHEN H
 ; DAWSON, GEORGE J
 ; LESNIENSKI, ROBIN A
 ; STEWARD, JAMES L
 ; RUPPRECHT, KEVIN R
 ; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS
 ; NUMBER OF SEQUENCES: 59
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ABBOTT LABORATORIES
 ; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
 ; CITY: ABBOTT PARK
 ; STATE: IL
 ; COUNTRY: USA
 ; ZIP: 60064-3500
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/690,359

FILING DATE: 17-Oct-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/867,611
 FILING DATE: 02-JUN-1997
 APPLICATION NUMBER: US/08/646,757
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/08/179,896
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US 07/572,822
 FILING DATE: 24-AUG-1990
 APPLICATION NUMBER: US 07/614,069
 FILING DATE: 07-NOV-1990
 APPLICATION NUMBER: US 07/748,561
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US 07/748,565
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US 07/748,566
 FILING DATE: 21-AUG-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: FOREMSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 708-937-6365
 TELEFAX: 708-937-9556
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 594 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: Linear
 MOLECULE TYPE: Peptide
 SEQUENCE DESCRIPTION: SEQ ID NO: 48:
 US-09-690-259-48

Query Match 76.4%; Score 534; DB 4;
 Best Local Similarity 74.4%; Pred. No. 7.7e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 ONEICLTHPTKTYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGHIELGGK 60
 Db 290 ONEIITLTHPTKTYIMAGMSADLEVTSTWVLLGGVLAALAAAYCLSYGCVVIVGRVVLSGK 349

Qy 61 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQATQQAVIEPIVT 120
 Db 350 PAIVPDKEVLYQYDEMECSQAAPIYEQAQVIAHQPKGVKLGLQATQQAVIEPIVT 409

Qy 121 TNWQKLEAFWHKH 133
 Db 410 TNWQKLEAFWHKH 422

RESULT 14
 US-08-867-611-16
 ; Sequence 16, Application US/08867611
 ; Patent No. 6172189
 ; GENERAL INFORMATION:
 ; APPLICANT: DEVARE, SUSHIL G
 ; APPLICANT: DESAI, SURESH M
 ; APPLICANT: CASEY, JAMES M
 ; APPLICANT: DAILEY, STEPHEN H
 ; APPLICANT: DAWSON, GEORGE J
 ; APPLICANT: GUTIERREZ, ROBIN A
 ; APPLICANT: LESNIENSKI, RICHARD R
 ; APPLICANT: STEWARD, JAMES L
 ; APPLICANT: RUPPRECHT, KEVIN R
 ; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS
 ; NUMBER OF SEQUENCES: 59
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ABBOTT LABORATORIES
 ; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
 ; CITY: ABBOTT PARK
 ; STATE: IL
 ; COUNTRY: USA
 ; ZIP: 60064-3500
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/690,359

CITY: ABBOTT PARK
 STATE: IL
 COUNTRY: USA
 ZIP: 60064-3500

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/867,611
 FILING DATE: 02-JUN-1997
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/646,757
 FILING DATE:
 APPLICATION NUMBER: US/08/179,896
 FILING DATE:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/572,822
 FILING DATE: 24-AUG-1990

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/614,069
 FILING DATE: 07-NOV-1990

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,561
 FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,565
 FILING DATE: 21-AUG-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/748,566
 FILING DATE: 21-AUG-1991

ATTORNEY/AGENT INFORMATION:
 NAME: POREMSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 4834.US.P6

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 708-937-6365
 TELEFAX: 708-937-6365

SEQUENCE FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 597 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-867-611-16

Query Match 76.4%; Score 534; DB 3; Length 597;
 Best Local Similarity 74.4%; Pred. No. 7.8e-54;
 Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 1 QNEICLTHPTKYMAGMSADLEVTTSTWLLGGVLAALAAAYCLSVGCVIVIGHIELGGK 60
 Db 288 QNBETLTHPTKYMTCMADLEVTTSTWLVGGVLAALAAAYCLSTGCVIVERVVLSGK 347

Qy 61 PAIVPDKEYLQQYDEMECSQASAPYIEAQVIAHQPKVKGILLQRATQQAVIEPTT 120
 Db 348 PAIIPDRELYRDEMEBCSQQHPUYEQGMMLAEQFRKGALKLGILQATASQAEVIAPVQ 407

Qy 121 TNWQKLEAFWHKH 133
 Db 408 TNWQKLETFWAKH 420

RESULT 15
 US-09-638-359-16
 Sequence 16, Application US/09690359
 Patent No. 659303

GENERAL INFORMATION:
 APPLICANT: DEVARE, SUSHIL G
 DESAI, SURESH M
 CASEY, JAMES M

Qy 288 ONEITLTHPTKYMTCMADLEVTTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60
 Db 61 PAIVPDKEYLQQYDEMECSQASAPYIEAQVIAHQPKVKGILLQRATQQAVIEPTV 120
 Qy 348 PAIIPDRELYRDEMEBCSQQHPUYEQGMMLAEQFRKGALKLGILQATASQAEVIAPVQ 407

Qy 121 TNWQKLEAFWHKH 133
 Db 408 TNWQKLETFWAKH 420

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:48:29 ; Search time 33 Seconds
 (without alignments)
 851.012 Million cell updates/sec

Title: US-09-638-693-36
 Perfect score: 699
 Sequence: 1_QNEICLTHPITKYIMACMSA.....VIEPIVTNNQKLEAFWHKH 133

Scoring table: BLOSUM62
 Gapext 10.0 , Gapext 0.5

Searched: 809742 sqqs, 211153259 residues

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000
 Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

Published Applications AA:
 1: /cgn2_6/_pcedata/2/_pubpaas/_US07_PUBCOMB.pep:
 2: /cgn2_6/_pcedata/2/_pubpaas/_PCT_NNEW_PUB.pep:
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	699	100.0	133	10	US-09-899-046-36
2	699	100.0	133	10	US-09-878-281-40
3	691	98.9	133	10	US-09-899-046-38
4	691	98.9	133	10	US-09-899-046-40
5	691	98.9	133	10	US-09-878-281-38
6	691	98.9	133	10	US-09-899-046-34
7	691	98.9	209	10	US-09-899-046-223
8	691	98.9	209	10	US-09-878-281-223
9	672	96.1	133	10	US-09-899-046-32
10	672	96.1	133	10	US-09-899-046-34
11	672	96.1	133	10	US-09-878-281-32
12	672	96.1	133	10	US-09-878-281-34
13	572	81.8	128	14	US-10-396-964-17
14	539	77.1	3011	9	US-09-742-659-4
15	539	77.1	3011	10	US-09-891-894-3

ALIGNMENTS

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RESULT 1
US-09-899-046-36
; Application US-0989046
; Publication No. US20030008214A1
; GENERAL INFORMATION:
; APPLICANT: New sequences of hepatitis C virus
; TITLE OF INVENTION: New sequences of hepatitis C virus, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 36
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US-09-899-046
; FILING DATE:
; PRIORITY APPLICATION NUMBER: 08/362,455
; FILING DATE:
; PRIORITY APPLICATION ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-36
Qy 1 ONEICLTHPITKYIMACMSADLEVTTWLLGGVIAALAYCLSGVWVIGHIELGGK 60
Db 1 ONEICLTHPITKYIMACMSADLEVTTWLLGGVIAALAYCLSGVWVIGHIELGGK 60
Qy 1 PAIVPDKREVLQQYDEEMECQOAPYTEQAVIAHQFKGVKLQLRATQQAVIEPIV 120

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RESULT 2
US-09-878-281-36
; Sequence 36, Application US/09878281
; Publication No. US20030032005A1

APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/878,281
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-09-878-281-36

Query Match 100.0%; Score 699; DB 10; Length 133;
Best Local Similarity 100.0%; Pred. No. 4.4e-12; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAAYCLSYGCVVIVGHIELGGK 60
Db 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAAYCLSYGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEECSSQAPIEQAQVIAHQFKGVLLQRATQQAVIEPIVT 120
Db 61 PAIVPDKEVLYQQYDMEECSSQAPIEQAQVIAHQFKGVLLQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 4
US-09-899-046-40
; Sequence 40, Application US/09899046
; Publication No. US20030008274A1

GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:
LENGTH: 133 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-09-899-046-40

Query Match 100.0%; Score 691; DB 10; Length 133;
Best Local Similarity 99.2%; Pred. No. 3.6e-71; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAAYCLSYGCVVIVGHIELGGK 60
Db 1 QNEICLTHPIKYIMCMSADLEVTSTWILLGGVLAAYCLSYGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEECSSQAPIEQAQVIAHQFKGVLLQRATQQAVIEPIVT 120
Db 61 PAIVPDKEVLYQQYDMEECSSQAPIEQAQVIAHQFKGVLLQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133
Db 121 TNWQKLEAFWHKH 133

RESULT 5
US-09-878-281-38
; Sequence 38, Application US/09899046
; Publication No. US20030008274A1

GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
NUMBER OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 38:

US-09-878-281-38
; Sequence 38, Application US/09878281
; Publication No. US20030032005A1

GENERAL INFORMATION:

APPLICANT: New sequences of hepatitis C virus

TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-38

RESULT 7

US-09-899-046-223

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 60

Db 1 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 60

Qy 61 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 120

Db 61 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133

Db 121 TNWQKLEAFWHKH 133

US-09-899-046-223

Query Match 98.9%; Score 691; DB 10; Length 209;

Best Local Similarity 99.2%; Pred. No. 6.5e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 60

Db 77 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 136

Qy 61 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 120

Db 137 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 196

Qy 121 TNWQKLEAFWHKH 133

Db 197 TNWQKLEAFWHKH 209

US-09-899-046-223

Query Match 98.9%; Score 691; DB 10; Length 209;

Best Local Similarity 99.2%; Pred. No. 6.5e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 60

Db 77 ONEICLTHPTKYMCMASADLEVTSTWILLGGVLAALAYCLSVGCVVTVGHIELGGK 136

Qy 61 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 120

Db 137 PAIVPDKEVLYQQYDMEECSSQAAPYEQAVIAHQFKGVLUQLQRATQQAVIEPIVT 196

Qy 121 TNWQKLEAFWHKH 133

Db 197 TNWQKLEAFWHKH 209

US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 Sequence 40, Application US/09878281

GENERAL INFORMATION:

APPLICANT: New sequences of hepatitis C virus

TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-40

RESULT 6

US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 Sequence 40, Application US/09878281

GENERAL INFORMATION:

APPLICANT: New sequences of hepatitis C virus

TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362,455

FILING DATE:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-40

Query Match 98.9%; Score 691; DB 10; Length 133;

Best Local Similarity 99.2%; Pred. No. 3.6e-71;

Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 1 Sequence 40, Application US/09878281

GENERAL INFORMATION:

APPLICANT: New sequences of hepatitis C virus

TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878,281
 FILING DATE: PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/362,455
 FILING DATE: Sequence for SEQ ID NO: 223:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 209 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-878-281-223

Query Match Similarity 98.9%; Score 691; DB 10; Length 209;
 Best Local Similarity 99.2%; Pred. No. 6.5e-71;
 Matches 1; Indels 0; Gaps 0;

1 QNEICLTHPITYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60
 Db 77 QNEICLTHPITYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 136

Qy 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120
 Db 137 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 196

Qy 121 TNWQKLEAFWHKH 133
 Db 197 TNWQKLEAFWHKH 209

RESULT 9
 US-09-899-046-32
 ; Sequence 32, Application US/09899046
 ; Publication No. US2003008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899, 046
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362, 455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 32:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 133 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-09-899-046-32

Query Match Similarity 96.1%; Score 672; DB 10; Length 133;
 Best Local Similarity 93.2%; Pred. No. 5.4e-69;
 Matches 124; Conservative 3; Indels 0; Gaps 0;

1 QNEICLTHPITYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60
 Db 1 QNBICLTHPVTYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60

Qy 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120
 Db 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133
 Db 121 SNWQKLEAFWHKH 133

RESULT 10
 US-09-899-046-34
 ; Sequence 34, Application US/09899046
 ; Publication No. US2003008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899, 046
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362, 455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 34:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 133 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-09-899-046-34

Query Match Similarity 96.1%; Score 672; DB 10; Length 133;
 Best Local Similarity 93.2%; Pred. No. 5.4e-69;
 Matches 124; Conservative 3; Indels 0; Gaps 0;

1 QNEICLTHPITYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60
 Db 1 QNEICLTHPVTYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60

Qy 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120
 Db 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133
 Db 121 SNWQKLEAFWHKH 133

RESULT 11
 US-09-898-281-32
 ; Sequence 32, Application US/09878281
 ; Publication No. US200303205A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878, 281
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362, 455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 32:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 133 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-09-898-281-32

Query Match Similarity 96.1%; Score 672; DB 10; Length 133;
 Best Local Similarity 93.2%; Pred. No. 5.4e-69;
 Matches 124; Conservative 3; Indels 0; Gaps 0;

1 QNEICLTHPITYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60
 Db 1 QNEICLTHPVTYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGK 60

Qy 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120
 Db 61 PAIVPDKEVLQQYDENEBCSQAAPYEQAQVIAHQPKGVKLQLQATQQAVIEPIVT 120

Qy 121 TNWQKLEAFWHKH 133
 Db 121 SNWQKLEAFWHKH 133

US-09-878-281-32

Query Match 96.1%; Score 672; DB 10; Length 133;
Best Local Similarity 93.2%; Pred. No. 5.4e-69;
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEICLTHPTKYMAGMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60
Db 1 QNEICLTHPTKYMAGMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEYLYQQYDEMECSQAAPYIEAQVIAHQFKEKGVLGLLQRATQQAVIEPVIA 120
Db 61 PAIVPDKEYLYQQYDEMECSQAAPYIEAQVIAHQFKEKGVLGLLQRATQQAVIEPVIA 120

Qy 121 TNWQKLEAFWHKH 133
Db 121 SNWKLETFWHKH 133

RESULT 12
US-09-878-281-34

Sequence 34, Application US/09878281
Publication No. US2003032005A1.

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy.

NUMBER OF SEQUENCES: 270

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/878, 281

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/362, 455

FILING DATE:

INFORMATION FOR SEQ ID NO: 34:

SEQUENCE CHARACTERISTICS:

LENGTH: 133 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-878-281-34

Query Match 96.1%; Score 672; DB 10; Length 133;
Best Local Similarity 93.2%; Pred. No. 5.4e-69;
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 QNEICLTHPTKYMAGMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60
Db 1 QNEICLTHPTKYMAGMSADLETTSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60

Qy 61 PAIVPDKEYLYQQYDEMECSQAAPYIEAQVIAHQFKEKGVLGLLQRATQQAVIEPVIA 120
Db 61 PAIVPDKEYLYQQYDEMECSQAAPYIEAQVIAHQFKEKGVLGLLQRATQQAVIEPVIA 120

RESULT 14
US-09-878-281-34

Sequence 4, Application US/09742659

Patent No. US20034015A1

GENERAL INFORMATION:

APPLICANT: Butkiewicz, Nancy J.

APPLICANT: Zhong, Weidong

APPLICANT: Ingravillo, Paul

APPLICANT: Wright-Minogue, Jacqueline

APPLICANT: Lau, Johnon Y.

APPLICANT: Lemon, Stanley M.

APPLICANT: Butkiewicz, Hong Zhi

APPLICANT: Simmonds, Peter

APPLICANT: Chan, Shiu-Wan

APPLICANT: Yap, Peng L.

TITLE OF INVENTION: Chimeric HCV/GBV-B viruses

FILE REFERENCE: ID0116

CURRENT APPLICATION NUMBER: US/09/742, 659

CURRENT FILING DATE: 2000-12-21

RESULT 13
US-10-396-964-17

Sequence 17, Application US/10396964

Publication No. US20030128946A1

GENERAL INFORMATION:

APPLICANT: Simmonds, Peter

APPLICANT: Chan, Shiu-Wan

APPLICANT: Yap, Peng L.

TITLE OF INVENTION: Hepatitis-C Virus Testing

; PRIOR APPLICATION NUMBER: US 60/171,469
 ; PRIOR FILING DATE: 1999-12-22
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO: 4
 ; LENGTH: 3011
 ; TYPE: PRT
 ; ORGANISM: Hepatitis C virus
 US-09-742-659-4

Query Match 77.1%; Score 539; DB 9; Length 3011;
 Best Local Similarity 75.9%; Pred. No. 5.5e-52;
 Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;
 Qy 1 ONEICLTHPITKYMAGMSADLEVTSTWLLGGVLAALAAAYCLSVCGVIVGHIRLGK 60
 Db 1632 QNEVTLTHPITKYMTCMSADLEVTSTWLVGGVLAALAAAYCLSTGCVIVGRIVLSK 1691
 Qy 61 PAIPDKEVLQYQDEMECSQAPYIEQAQVTAHOKGVNLILLORATQQAVIPIVT 120
 Db 1692 PAIPDKEVLQFDEMECSQHLPYIEQGMMLAEQPKQALGLQASRQEVTPAVQ 1751
 Qy 121 TNWQKLEAFWHKH 133
 Db 1752 TNWQKLEEVFWAHC 1764

RESULT 15

US-09-891-894-3
 ; Sequence 3, Application US/09891894
 ; Publication No. US2003013081A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Olson, William
 ; ATTORNEY: Madden, Paul
 ; TITLE OF INVENTION: USES OF DC-SIGN AND DC-SIGNR FOR INHIBITING HEPATITIS C VIRUS INF
 ; FILE REFERENCE: 2048/64496/JPW/SHS
 ; CURRENT APPLICATION NUMBER: US/09/891,894
 ; CURRENT FILING DATE: 2001-06-26
 ; NUMBER OF SEQ ID NOS: 3
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 3
 ; LENGTH: 3011
 ; TYPE: PRT
 ; ORGANISM: hepatitis c virus
 US-09-891-894-3

Query Match 77.1%; Score 539; DB 10; Length 3011;
 Best Local Similarity 75.9%; Pred. No. 5.5e-52;
 Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;
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 Db 1632 QNEVTLTHPITKYMTCMSADLEVTSTWLVGGVLAALAAAYCLSTGCVIVGRIVLSK 1691
 Qy 61 PAIPDKEVLQYQDEMECSQAPYIEQAQVTAHOKGVNLILLORATQQAVIPIVT 120
 Db 1692 PAIPDKEVLQFDEMECSQHLPYIEQGMMLAEQPKQALGLQASRQEVTPAVQ 1751
 Qy 121 TNWQKLEAFWHKH 133
 Db 1752 TNWQKLEEVFWAHC 1764

Search completed: February 25, 2004, 01:53:58
 Job time : 34 secs

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 27, 2004, 21:45:32 ; Search time 64 Seconds
 1153.257 Million cell updates/sec
 (without alignments)

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPTKTYIMACMSA.....VIEPIVTINMQKLEAFWHKH 133

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5

Ygapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 682/09 seqs, 277473446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

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-LOCOPEXT=0 -UNITS=Bytes -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdd
-LIST=45 -DOCMATCH=200 -THR SCORE=DEC -THR MAX=100 -THR MIN=0 -ALIGN=LJ
-MODE=LOCAL -OUTFORMAT=pfo -NORM=ext -HEAPSIZE=200 -MINLEN=0 -MAXLEN=2000000000
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-FGAPEXT=7 -YGAPOP=10 -XGAPEXT=0.5 -DELEXT=7
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Database : Issued Patents NA : *

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2: /cgn2_6/pbodata/2/ina/5B COMB seq:*
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5: /cgn2_6/pbodata/2/ina/PCTUS COMB seq:*
6: /cgn2_6/pbodata/2/ina/backfiles1.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	572	B1.8	367	1	US-09-244-116B-16		Sequence 16, App1
2	539	77.1	9646	3	US-08-111-566-1		Sequence 1, App1
3	539	77.1	9646	4	US-09-334-756-1		Sequence 1, App1
4	539	77.1	12980	3	US-08-811-566-5		Sequence 5, App1
5	539	77.1	12980	4	US-09-334-756-5		Sequence 5, App1
6	534	76.4	943	2	US-08-483-655-43		Sequence 43, App1
7	534	76.4	943	2	US-07-965-285-43		Sequence 43, App1
8	534	76.4	943	2	US-08-387-231-43		Sequence 43, App1
9	534	76.4	943	3	US-09-201-912-43		Sequence 43, App1
10	534	76.4	1310	3	US-08-444-818-67		Sequence 43, App1
11	534	76.4	1382	3	US-08-444-818-19		Sequence 19, App1
12	534	76.4	1414	3	US-08-867-611-51		Sequence 51, App1

ALIGNMENTS

RESULT 1

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US-08-244-116B-16 ; Sequence 16, Application US/08244116B
; Patent No. 5763159 ; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu Wan
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: NC 28205-3597 ; United States
; COUNTRY: United States
; ZIP: 28234 ; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; PRIORITY APPLICATION DATA:
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
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MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/034, 756
 FILING DATE: 04-May-1998
 CLASSIFICATION: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: HOLLAND, DONALD R.
 REGISTRATION NUMBER: 35,197
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 314-727-6092
 TELEFAX: 314-727-5188
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9616 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-09-034-756-1

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Percent Similarity:	Best Local Similarity:	Query Match:	DB:	DB:	US-09-034-756-1
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5235	539.00	Conservative:	10	83.46%	75.94%	77.11%			
		Mismatches:	22						
		Indels:	0						
		Gaps:	4						

US-09-638-693-36 (1-133) x US-09-034-756-1 (1-9646)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 5235 CAGAATGAACTCACCCCTGAACGCCACCAATACTCATGACATGTCATGGGCC 5294
 Qy 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyIleValLeuAlaAlaLeuAla 40
 Db 5295 GACCTGAGGTGCTCACGAGACCTGGTCTGGCGTCCTGGCTGGCC 5354

Qy 41 AlaTyrcysLeuSerValGlycysValValLeuGlyHsileGluLeuGlyLys 60
 Db 5355 GCGTATTGCGTGTCAACGGCTGCAGGATTCCTGCTGGGAAG 5414

Qy 61 ProAlaIleValProAspIleGluValLeuThrGlnGlnLysTyrAspGluMetGluGluCys 80
 Db 5415 CGGGCAATTATACCTGAGGGTTCTAACCGAGTTCGATAGATGGAAGATGCC 5474

Qy 81 SerGlnAlaAlaProTyrcysIleGluGlnAlaGlnValLeuAlaHisGlnPhylsGlyLys 100
 Db 5475 TCTCAGCACTTACCGTACATGAGCAGGGATGATGCTGGCTGAGCTAACAGAG 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValLeuGluProIleValThr 120
 Db 5535 GCCCTGGCTCTGGAGAACGAGGTTATCACCCCTGGCGAAAGCAC 5594

Qy 121 ThrAsnTrpGlnLysLeuGluAlaPheTphisLysHis 133
 Db 5595 ACCAACTGGAGAAACTGGAGTCTTGCGCAAGCAC 5633

RESULT 4
 US-09-034-756-5
 Sequence 5, Application US/08811566
 Patent No. 6127116
 GENERAL INFORMATION:
 APPLICANT: Rice, Charles et al.
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
 TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
 Db 5595 ACCAACTGGAGAAACTGGAGTCTTGCGCAAGCAC 5633

NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSE: David A. Jackson, Esq.
 STREET: 411 Hackensack Ave, Continental Plaza, 4th
 CITY: Hackensack
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/811,566
 FILING DATE: 03-MAR-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jackson, Esq., David A.
 PRACTICITIONER NUMBER: 26,742
 REFERENCE/DOCKET NUMBER: 1113-1-006
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201-487-5000
 TELEFAX: 201-343-1684
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 12980 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-811-566-5

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Percent Similarity:	Best Local Similarity:	Query Match:	DB:	DB:	US-09-034-693-36 (1-133) x US-08-811-566-5 (1-12980)
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				83.46%	75.94%	77.11%			
					75.94%	77.11%			
						77.11%			
							3		
								3	
									US-08-811-566-5

Qy 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 5235 CAGAATGAACTCACCCCTGAACGCCACCAATACTCATGACATGTCATGGGCC 5294
 Qy 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyIleValLeuAlaAlaLeuAla 40
 Db 5295 GACCTGAGGTGCTCACGAGCTGGCTGGCTGGCTGGCTGGCC 5354

Qy 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyIleValLeuAlaAlaLeuAla 40
 Db 5295 GACCTGAGGTGCTCACGAGCTGGCTGGCTGGCTGGCC 5354

Qy 41 AlaTyrcysLeuSerValGlycysValValLeuGlyHsileGluLeuGlyLys 60
 Db 5355 CGGTATTGCGTGTCAACGGCTGCAGGATTCCTGCTGGGAAG 5414

Qy 61 ProAlaIleValProAspIleGluValLeuThrGlnGlnLysTyrAspGluMetGluGluCys 80
 Db 5415 CGGGCAATTATACCTGAGGGTTCTAACCGAGTTCGATAGATGGAAGATGCC 5474

Qy 81 SerGlnAlaAlaProTyrcysIleGluGlnAlaGlnValLeuAlaHisGlnPhylsGlyLys 100
 Db 5475 TCTCAGCACTTACCGTACATGAGCAGGGATGATGCTGGCTGAGCTAACAGAG 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValLeuGluProIleValThr 120
 Db 5535 GCCCTGGCTCTGGAGAACGAGGTTATCACCCCTGGCGAAAGCAC 5594

Qy 121 ThrAsnTrpGlnLysLeuGluAlaPheTphisLysHis 133
 Db 5595 ACCAACTGGAGAAACTGGAGTCTTGCGCAAGCAC 5633

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValLeuGluProIleValThr 120
 Db 5535 GCCCTGGCTCTGGAGAACGAGGTTATCACCCCTGGCGAAAGCAC 5594

Qy 121 ThrAsnTrpGlnLysLeuGluAlaPheTphisLysHis 133
 Db 5595 ACCAACTGGAGAAACTGGAGTCTTGCGCAAGCAC 5633

RESULT 4
 Sequence 5, Application US/08811566
 Patent No. 6127116
 GENERAL INFORMATION:
 APPLICANT: Rice, Charles et al.
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
 TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
 Db 5595 ACCAACTGGAGAAACTGGAGTCTTGCGCAAGCAC 5633

RESULT 5
US-09-034-756-5 Application US/09034756
Sequence 5, Patent No. 6392028
GENERAL INFORMATION:
APPLICANT: RICE, CHARLES et al.
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: HOWELL & HAERKAMP, L.C.
STREET: 7733 FORSYTH BLVD., SUITE 1400
CITY: ST. LOUIS
STATE: MO
COUNTRY: USA
ZIP: 63105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/034,756
FILING DATE: 04-MAY-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: HOLLAND, DONALD R.
REGISTRATION NUMBER: 35,197
REFERENCE/DOCKET NUMBER: 6029-4831
TELECOMMUNICATION INFORMATION:
TELEPHONE: 314-727-5188
TELEFAX: 314-727-6992
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12980 base pairs
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-034-756-5

Alignment Scores:
Pred. No.: 7.5e-58 Length: 12980
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-034-756-5 (1-12980)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrTyrLysTyrLeuAlaMetSerAla 20
Db 5245 CAGATGAGTCACCTGCGAACGGCTGCGCATAGTGGAGGTGCTGCGGAAG 5294

Qy 21 AspLeuGluValThrSerThrPheLeuGlyGlyValLeuAlaAlaLeuAla 40
Db 5295 GACCTGGAGTCACGGCACCTGGGAGTCCTGGGCCCTCGCTGC 5354

Qy 41 AlaTyrCysLeuSerAlaGlyCysValValIleAlaGlyHistidineGluGly 60
Db 5355 GCGATTGCTGTCACGGCTGCGCATAGTGGAGGTGCTGCGGAAG 5414

Qy 61 ProAlaIleValProAspLysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80
Db 5415 CGGGAAATTAACCTGACGGAGTCCTACGGAGTCATGATGAGATGGAGATG 5474

Qy 81 SerGlnAlaAlaProTyroIleGluGlnAlaGlnValLeuAlaHisGlnPhalysGly 100
Db 5595 ACCACTGGCAAGAACCTGAGTCCTGGCGAGAC 5633

RESULT 6
US-08-483-695-43
; Sequence 43, Application US/08483695
; Patent No. 5866139
GENERAL INFORMATION:
APPLICANT: Brechet, Christian
APPLICANT: Kremdorff, Diana
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a Hepatitis C Virus Isolate, Diagnostic and Therapeutic Applications
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-POS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,695
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 943 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-483-695-43

Alignment Scores:
Pred. No.: 8.56e-59 Length: 943
Score: 534.00 Matches: 99
Percent Similarity: 83.46% Conservative: 12
Best Local Similarity: 74.44% Mismatches: 22
Query Match: 76.39% Indels: 0
DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-483-695-43 (1-943)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrTyrLeuAlaMetAlaCysMetSerAla 20
Db 5535 GCCCTGGCCCTCTGAGCCAAAGCAGGGTTACCCCTGCTG 5594

Db 534 CAGATGAATCACCTGACGCCAGTCACCAATAACATCATGACATGTCGCC 593 US-07-965-285-43

Qy 21 AspLeuGluValThrThrSerThrPvalLeuLeuGlyValLeuAlaLeuAla 40 Alignment Scores: Pred. No.: 8.56e-59 Length: 943

Db 594 GACCTGGAGTCGTGTCACGGCACCTGGGCTCGTGTGCGCC 653 Score: 534.00 Matches: 99

Qy 41 AlaTrpCysLeuSerValGlyCysValValIleValGlyHistLeuGlyGly 60 Percent Similarity: 83.46% Conservative: 12

Db 654 GCGPATGCCCTGTCAACAGCTGGTCATGGTGCAGGTCGCTTCGGAAAG 713 Best Local Similarity: 74.44%

Qy 61 ProAlaLevalProAspLysGluValLeuGlyValGluGluCys 80 Mismatches: 22

Db 714 CGCGCAATCATACTGAAAGGAAATGGCTCTACCGAGAGTCATGGAAAGTC 773 Query Match: 76.39% Indels: 0

Qy 81 SerAlaAlaAlaProTyrosineGluGlnValLeAlaHisGlnPheGlyLys 100 Gaps: 0

Db 774 TCTOAGCATTACCGTACATCGAAAGGATGATGCTYGCCTAGCAGAAAG 833 Qy 21 AspLeuGluValThrThrSerThrPvalLeuLeuAlaAlaLeuAla 40

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGinglnAlaValLeGluProLevalThr 120 Db 594 GACCTGGAGTCGTGTCAGAGAACCTGGCTGGCTGGCTGGCTGGCTGGCC 653

Db 834 GCGCTGGCTCTCGCAAGCCGCTCCCTGAGCCGCTGATGGCTGTGTCAG 893 Qy 41 AlaTrpCysLeuSerValGlyValGluValLeuValGlyHistLeuGlyGly 60

Qy 121 ThrasnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133 Db 654 GCCTATGCCCTCAACAGCTGGCTGTAGTGCGCAGGGCTGGCTGGCTGG 713

Db 894 ACCAACTGCAAATAACTTGAGACCTTCCTGGCSAAGCT 932 Qy 61 ProAlaLevalProAspLysGluValLeuGlyValGlnLysLeuAspGluMetLeuGluCys 80

RESULT 7 Db 714 CGGGCAGTCATCCGAGGCGCTGGCTGGCTGGCTGGCTGGCTGG 773

; Sequence 43, Application US-07-965-285-43 US-08-487-231-43

; Patent No. 5879904 ; Sequence 43, Application US-08487231

; GENERAL INFORMATION: ; GENERAL INFORMATION:

; APPLICANT: Brechot, Christian ; APPLICANT: Brechot, Christian

; ADDRESS: Dunaer Porchon, Colette ; ADDRESS: Dunaer Porchon, Colette

; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a ; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic

; NUMBER OF SEQUENCES: 46 ; NUMBER OF SEQUENCES: 46

; CORRESPONDENCE ADDRESS: ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ; CORRESPONDENCE ADDRESS: ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

; STREET: 1300 I Street, N.W. ; STREET: 1300 I Street, N.W.

; CITY: Washington ; CITY: Washington

; STATE: DC ; STATE: DC

; COUNTRY: USA ; COUNTRY: USA

; ZIP: 20005-3315 ; ZIP: 20005-3315

; COMPUTER READABLE FORM: ; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk ; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible ; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS ; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25 ; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA: ; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US-07/965,285 ; APPLICATION NUMBER: US-07/965,285

; FILING DATE: 18-MAR-1993 ; FILING DATE: 06-JUN-1991

; CLASSIFICATION: 435 ; ATTORNEY/AGENT INFORMATION:

; PRIORITY APPLICATION DATA: NAME: Meyers, Kenneth J.

; TELECOMMUNICATION INFORMATION: REGISTRATION NUMBER: 25,146

; TELEPHONE: 202-408-4000 ; REFERENCE/DOCKET NUMBER: 05286-0001-00000

; TELEFAX: 202-408-4400 ; INFORMATION FOR SEQ ID NO: 43:

; SEQUENCE CHARACTERISTICS: LENGTH: 943 base pairs

; TYPE: nucleic acid ; STRANDEDNESS: single

; TOPOLOGY: linear ; MOLECULE TYPE: Other

; DESCRIPTION: cDNA to genomic RNA ; CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 91 06 882
 FILING DATE: 06-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REFERENCE/DOCKET NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 05286-0001-02000
 TELEPHONE: 202-408-4000
 TELEFAX: 202-408-4400
 SEQUENCE CHARACTERISTICS:
 LENGTH: 943 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Other
 DESCRIPTION: cDNA to genomic RNA
 US-08-487-231-43

Alignment Scores:
 Pred. No.: 8.56e-59 Length: 943
 Score: 534.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 534 GCGATTCTGTGAAACAGGTCGTCATAGTGGTGCAGTCGGC 593

Qy 21 AspLeuGluValThrThrSerThrHisProIleThrLysIleMetAlaCysMetSerAla 20
 Db 594 GACCTGGAGGTCTCACAGGCACCTGTGTTGCGCTCCCTGGC 653

Qy 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHistoleGluLeuGlyLys 60
 Db 654 GCGATTCTGTGAAACAGGTCGTCATAGTGGTGCAGTCGGC 713

Qy 61 ProAlaLeuValProAspLysGluValLeuIleValIleGlnInTrtAspGluMetGluCys 80
 Db 714 CGCGCAATTATACCTGAGGAAGTCTAACGAGATGATGAGTCG 773

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGinValLeAlaHisGlnPheLysGlyLys 100
 Db 774 TCTCAGAATTACGTAAATCGAGCAAGGAGATGTCGCGGAGCTGAGCAAGG 833

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValLeGluProIleValThr 120
 Db 834 GCCTTCGCTCTGCAAGCCGTCGGTAGGGAGGTATGCCCTGCTGTCAG 893

Qy 121 ThrAsnTrpGlnLysLysLeuGluAlaPheTrpHisLysHis 133
 Db 894 ACCAACTGGAAAAACTCGAGACCTTCCTGGGGAAAGAT 932

RESULT 9
 US-09-201-912-43
 Sequence 43, Application US/09201912
 Patent No. 6210962
 GENERAL INFORMATION:
 APPLICANT: Precht, Christian
 APPLICANT: Kremdorff, Dina
 APPLICANT: Porchon, Colette
 TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
 NUMBER OF SEQUENCES: 46
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner

STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentInRelease #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/201,912
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/965,285
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 05286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4000
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 43:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 943 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 MOLECULE TYPE: Other
 DESCRIPTION: cDNA to genomic RNA
 US-09-201-912-43

Alignment Scores:
 pred. No.: 8.56e-59 Length: 943
 Score: 534.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 3 0
 Gaps: 0

US-09-638-693-36 (1-133) x US-09-201-912-43 (1-943)

Qy 1 GlnAsnGluIleCysLeuThrHisProIleThrLysIleMetAlaCysMetSerAla 20
 Db 534 CAGAATGAAATCACCCTGACGCCAGTCACTAACATCATGACAGTCATGTCGGCC 593

Qy 41 AspLeuGluValThrThrSerThrHisProIleThrLysIleMetAlaCysMetSerAla 40
 Db 594 GACCTGGAGGTCTCACAGGCACCTGTGTTGCGCTCCCTGGC 653

Qy 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHistoleGluLeuGlyLys 60
 Db 654 GCGATTCTGTGAAACAGGTCGTCATAGTGGTGCAGTCGGC 713

Qy 61 ProAlaLeuValProAspLysGluValLeuIleValIleGlnInTrtAspGluMetGluCys 80
 Db 714 CGCGCAATTATACCTGAGGAAGTCTAACGAGATGATGAGTCG 773

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGinValLeAlaHisGlnPheLysGlyLys 100
 Db 774 TCTCAGAATTACGTAAATCGAGCAAGGAGATGTCGCGGAGCTGAGCAAGG 833

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValLeGluProIleValThr 120
 Db 834 GCCTTCGCTCTGCAAGCCGTCGGTAGGGAGGTATGCCCTGCTGTCAG 893

Qy 121 ThrAsnTrpGlnLysLysLeuGluAlaPheTrpHisLysHis 133
 Db 894 ACCAACTGGAAAAACTCGAGACCTTCCTGGGGAAAGAT 932

RESULT 9
 US-09-201-912-43
 Sequence 43, Application US/09201912
 Patent No. 6210962
 GENERAL INFORMATION:
 APPLICANT: Precht, Christian
 APPLICANT: Kremdorff, Dina
 APPLICANT: Porchon, Colette
 TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
 TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
 NUMBER OF SEQUENCES: 46
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner

US-08-444-818-67
 / Sequence No. 67, Application US/08444818
 / GENERAL INFORMATION:
 / Patent No. 6150087
 / APPLICANT: Chien, David Y.
 / TITLE OF INVENTION: NANBV Diagnostics and Vaccines
 / NUMBER OF SEQUENCES: 777
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Chiron Corporation
 / CITY: Emeryville
 / STATE: CA
 / ZIP: 94608-2916
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.30
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/444,818
 / FILING DATE: 14-MAR-1995
 / CLASSIFICATION: 424
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: US/08/403,590
 / FILING DATE: 14-MAR-1995
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Harbin, Alisa A.
 / REGISTRATION NUMBER: 33,895
 / REFERENCE/DOCKET NUMBER: 0110-002
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (508)359-3876
 / TELEFAX: (508)359-3885
 / INFORMATION FOR SEQ ID NO: 67:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 1310 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / IMMEDIATE SOURCE:
 / CLONE: composite of clones 36, 81, and 32
 / FEATURE:
 / NAME/KEY: CDS
 / LOCATION: 1..1146
 / US-08-444-818-67

Alignment Scores:
 Pred. No.: 1. 35e-58 Length: 1310
 Score: 534.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-67 (1-1210)

Qy 1 GlnAsnGluLysCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 232 CAGATGAATTCACCTGACCCACCAAGTACCATACATCATGCGGCC 291

Qy 21 AspLeuGluValThrSerThrTyrIleLeuGlyValLeuAlaAlaLeuAla 40
 Db 292 GACCTGGAGCTGGTCAAGAGACCTGGGTCTGGTGGGGGTTGGCC 351

Qy 41 AlaTyrCysteIleSerValGlyCysValValIleValGlyHistidineGluGlyLys 60
 Db 352 GCGTATTGCTGTCAACAGGTGGTCAATGTCGTTGGCAAGGCTGGGANG 411

Qy 61 ProAlaIleValProAspIlysGluValLeuTyrGlnGlnItyrAspGluMetGluGluCys 80
 Db 412 CGGGAAATCACCTAACCTGACAGGGAAAGTCCTACTCCGAGCTGATGAGATGGAAAGTGC 471

Qy 1 GlnAsnGluLysCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 484 CAGATGAATTCACCTGACGGACCCAGTCATGTCATGCAATCATGACATGTGGCC 543

Qy 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValLeuAlaHisGlnPheLysGlyLys 100
 Db 472 TCTCACACTTACCGACATCGGAAAGGGATGATGTCGCCGAGAGTCAGCGAAG 531

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValThr 120
 Db 532 GCCCCGGCTCCCTGAGACCCGTCAGGGAGTTATGCCCTGCGTGCAG 591

Qy 121 ThrAsnTrpGlnLysIleGluAlaPheTyrIleGlyLysHis 133
 Db 592 ACCAACTGCGAAAATCTGAGACCTCTGCGCAAGCAT 630

RESULT 11
 US-08-444-818-19
 / Sequence 19, Application US/08444818
 / Patent No. 6150087
 / GENERAL INFORMATION:
 / APPLICANT: Chien, David Y.
 / APPLICANT: Rutter, William J.
 / TITLE OF INVENTION: NANBV Diagnostics and Vaccines
 / NUMBER OF SEQUENCES: 777
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Chiron Corporation
 / STREET: 4560 Horton Street
 / CITY: Emeryville
 / STATE: CA
 / COUNTRY: USA
 / ZIP: 94608-2916
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.30
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/444,818
 / FILING DATE:
 / CLASSIFICATION: 424
 / PRIORITY APPLICATION NUMBER: 0110-002
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Harbin, Alisa A.
 / REGISTRATION NUMBER: 33,895
 / REFERENCE/DOCKET NUMBER: 0110-002
 / TELEPHONE: (508)359-3876
 / TELEFAX: (508)359-3885
 / INFORMATION FOR SEQ ID NO: 19:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 1382 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / FEATURE:
 / NAME/KEY: CDS
 / LOCATION: 1..1380
 / US-08-444-818-19

Alignment Scores:
 Pred. No.: 1.46e-58 Length: 1382
 Score: 534.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 3 Gaps: 0

21 AspLeuGluValThrThrSerThrTrpValLeuGlyGlyValLeuAlaAlaLeuAla 40
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 544 GACCTGGAGGTCTCACAGCAACTGGTGCACGACTGGTCATCGCTGCTGCTGGC 603

41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 604 GCCTATTGCTGTCAACAGCTCGCTGCTCATAGTGCCAGGTGCTGCTGGCAAAG 663

61 ProAlaIleValProAspLysGluValLeuItyGlnGlnItyAspGluMetGluGlucys 80
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 664 CCGGCAATCATACCTGACAAGGAAAGTCTAACCGAGGTCATGAGATGGAAAGTGC 723

81 SerGlnAlaAlaAlaProTyrosineGluGlnAlaGinValLeuAlaHisGlnPhenylsGlyLys 100
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 724 TCTCAGCACTTACCGTACATCGAGCAGGAACTGCTAACGGAGGTCATGAGCAAG 783

101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProIleValThr 120
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 784 GCGCTTCGCACTCTCGACGAGACCTCTGGCAAGGGTTATGCCCTGCTGTCAG 843

Qy 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHsLysHis 133
 Db 844 ACCAATCGCAAAAACCTGAGACCTCTGGCAAGGGCAT 862

RESULT 12 US-09-867-611-51
 Sequence 51, Application US/08867611
 Patent No. 612189

GENERAL INFORMATION:
 APPLICANT: DEVARE, SUSHIL G
 APPLICANT: DESAI, SURESH M
 APPLICANT: CASEY, JAMES M
 APPLICANT: DALEY, STEPHEN H
 APPLICANT: DAWSON, GEORGE J
 APPLICANT: GUTIERREZ, ROBIN A
 APPLICANT: LESNIOWSKI, RICHARD R
 APPLICANT: STEWART, JAMES L
 APPLICANT: RUPPRECHT, KEVIN R
 TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT
 NUMBER OF SEQUENCES: 59

ADDRESSEE: ABBOTT LABORATORIES
 STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
 CITY: ABBOTT PARK
 STATE: IL
 COUNTRY: USA
 ZIP: 60064-3500

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patientin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/867, 611
 FILING DATE: 02-JUN-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/646, 757
 FILING DATE:
 APPLICATION NUMBER: US/08/179, 896
 FILING DATE:

APPLICATION NUMBER: US/08/646, 757
 FILING DATE: 24-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/614, 069
 FILING DATE: 07-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/748, 561
 FILING DATE: 21-AUG-1991
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/748, 565
 FILING DATE: 21-AUG-1991
 PRIORITY NUMBER: US 07/748, 566
 FILING DATE: 21-AUG-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: POREMBSKI, PRISCILLA E
 REGISTRATION NUMBER: 33, 207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 708-937-6365
 TELEX/FAX: 708-937-9556
 INFORMATION FOR SEQ ID NO: 51:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1414 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-867-611-51

Alignment Scores:
 Pred. No.: 1.5e-58 Length: 1414
 Score: 534.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-867-611-51 (1-1414)

Qy 1 GluAsnGluIleCysLeuThrHisProIleThrIlysTyrIleMetAlaCysMetSerAla 20
 Db 487 CAGAACGAAATACCCGACCCGGTACCAAACTACATGACCTGCGATGTCGCT 546

21 AspLeuGluValThr-ThrSerThrProValLeuIleGlyValLeuAlaAlaLeuAla 40
 Db 547 GATCTAGAAAGTTGTTACCTCTAACCTGGTCTGGTGTCTGGCTCGTGGCT 606

41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60
 Db 607 GCTTACTGCGCTGTCGACCCGGTGCCTGCTGATCCTGGTGTCTGGCTCGTGGCT 666

61 ProAlaIleValProAspIlePheGluValLeuIleGluProIleValThrGlnGlnIleGluCys 80
 Db 667 CGGCCATTATCCGACCTGGTACATGAAAGGTATGATCAGTCAAACGAA 726

81 SerGlnAlaAlaProTyrosineGluGlnAlaGlnValLeuAlaHisGlnPheLysGlyLys 100
 Db 727 TCTCAGGACCTGCTGCTGAGGCTGCTGCTGAACTGCTGAACTGAA 786

101 ValLeuGlyIleLeuGluInAGAlaThrGlnGlnIleValIleGluProIleValThr 120
 Db 787 GCTCTGGTCTGCTGCAAGCCGCTCTGCTGAGGTATGCCCTGGCTTTCAG 846

121 ThrAsnTrpGlnLysIleGluAlaPheTrpIleHisIleHis 133
 Db 847 ACCAACTGGCAAAACTCGAGACCTCTGGCTAAACAC 885

RESULT 13 US-09-690-359-51

1 Sequence 51, Application US/09690359
 ; Patent No. 6593083

GENERAL INFORMATION:
 APPLICANT: DEVAR, SUSHIL G
 APPLICANT: DESAI, SURESH M
 APPLICANT: CASEY, JAMES M
 APPLICANT: DAILEY, STEPHEN H
 APPLICANT: DAWSON, GEORGE J
 APPLICANT: GUTIERREZ, ROBIN A
 APPLICANT: LESNIOWSKI, RICHARD R
 APPLICANT: STEWART, JAMES L
 APPLICANT: RUPPRECHT, KEVIN R

TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT
 NUMBER OF SEQUENCES: 5:9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ABBOTT LABORATORIES
 STREET: ONE ABBOTT PARK ROAD, CHADDICK/ABD2
 CITY: ABBOTT PARK
 STATE: IL
 COUNTRY: USA
 ZIP: 60064-3500
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/690,359
 FILING DATE: 17-OCT-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/867,611
 FILING DATE: 02-JUN-1997
 APPLICATION NUMBER: US/08/646,757
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/08/179,896
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US/07/572,822
 FILING DATE: 24-AUG-1990
 APPLICATION NUMBER: US 07/614,069
 FILING DATE: 07-NOV-1990
 APPLICATION NUMBER: US 07/748,561
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US 07/748,565
 FILING DATE: 21-AUG-1991
 APPLICATION NUMBER: US 07/748,566
 FILING DATE: 21-AUG-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: FOREMBSKI, PRISCILLA E
 REGISTRATION NUMBER: 33,207
 REFERENCE/DOCKET NUMBER: 4834.US.P6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 708-937-6365
 TELEX/FAX: 708-937-9556
 INFORMATION FOR SEQ ID NO: 51:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 1414 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / MOLECULE TYPE: DNA (Genomic)
 / SEQUENCE DESCRIPTION: SEQ ID NO: 51:
 US-09-690-359-51

Alignment scores:
 Pred. No.: 1.5e-58 Length: 1414
 Score: 53.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 4 Gaps: 0

US-09-693-36 (1-133) x US-09-690-359-51 (1-1414)

Qy 1 GluAsnGluIleCysLeuThrHisProLleThrLysTrpLeuLeuGlyValLeuAlaCysMet
 Score: 53.00 Matches: 99
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 4 Gaps: 0

Qy 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyValLeuAlaAlaAla
 Score: 48.7 CAGAACGAAATCAGCCCTGACCCACGGTTACCAATACTTCATACCTGATGGCTGTC
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 4 Gaps: 0

Qy 41 AlaTyrCysLeuSerValGlyCysValValLeuValGlyHisIleGluLeuGly
 Score: 54.7 GATCTGAGTGTACCTGTCGTTGCTGTTGCTGTC
 Percent Similarity: 83.46% Conservative: 12
 Best Local Similarity: 74.44% Mismatches: 22
 Query Match: 76.39% Indels: 0
 DB: 4 Gaps: 0

Db	733	TCTCAGGCACTGCGTACATCGAACAGGGTATGCTGGCTGAACAGTGAAACAGTCAAACAGAAA	792
Qy	101	VallenuGlyLeuIleGluArgAlaThrGlnGlnAlaValleGluProIleValThr	120
Db	793	GCTCTGGGTCTGTCAGAACCGTTTCGCTCAGGCTGAAATCGCTCGGCTGTTCAAG	852
Qy	121	ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
Db	853	ACCAACTGGAGAAACTGGAGACCTCTGGCTAAACAC	891

Search completed: February 27, 2004, 21:51:48
Job time : 74 secs

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OM protein - nucleic search, using frame_plus_D2n mode

Run on: February 27, 2004, 21:49:23 ; Search time 254 Seconds
(without alignments)

Perfect score: 699 (1888.949 Million cell updates/sec)

Title: US-09-638-693-36

Sequence: 1 QNEICLTHPITKYIMACMSA.....VIEPIVTINWQKLEAFWHKH 133

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2353733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

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-TRANS=human40 -CDI=LIST15 -LOCAL=1 -OUTfmt@P=0 -THR_SCORE=pct -THR_MAX=100
-MIN=0 -ALIGN=15 -MODE=LOCAL -OUTfmt@P=0 -NORM=ext -HEASize=500 -MINLEN=0
-NCPUL=6 -ICPU=3 -NO_MM -LARGE_BLOCK=100 -NEG_SCORES=0 -WAIT -DEPBLOCK=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPEXT=0.5
-FGAPOP=6 -FGABPLX=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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Database :

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Published Applications NA:*
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18: /cgn2_6/prodata/2/pubna/US60_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SEQUENCES

Result No.	Score	Query Match Length	DB ID	Description
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2	699	100	0	US-09-878-281-35
3	691	98	9	US-09-899-046-37
4	691	98	9	US-09-899-046-39
5	691	98	9	US-09-878-281-37
6	691	98	9	US-09-878-281-39
7	691	98	9	US-09-899-046-22
8	691	98	9	US-09-878-281-22
9	672	96	1	US-09-899-046-1
10	672	96	1	US-09-899-046-13
11	672	96	1	US-09-878-281-31
12	672	96	1	US-09-878-281-33
13	572	81	8	US-09-396-964-16
14	539	77	1	US-09-742-659-3
15	539	77	1	US-09-742-659-1
16	539	77	1	US-09-738-076-1
17	539	77	1	US-09-995-937-1
18	539	77	1	US-09-917-563-1
19	539	77	1	US-09-238-016-5
20	539	77	1	US-09-995-937-5
21	534	76	4	US-09-917-563-5
22	534	76	4	US-09-916-559-1
23	534	76	4	US-09-916-559-9
24	534	76	4	US-09-916-559-19
25	534	76	4	US-09-917-563-19
26	534	76	4	US-10-104-966-13
27	534	76	4	US-09-747-419-17
28	534	76	4	US-10-238-076-19
29	527	75	4	US-09-929-055-13
30	493	70	5	US-09-827-688-7
31	492	70	4	US-09-919-901-1
32	492	70	4	US-09-919-901-8
33	492	70	4	US-10-104-966-13
34	492	70	4	US-10-191-966-1
35	492	70	4	US-10-191-966-8
36	492	70	4	US-10-191-966-15
37	490	70	1	US-10-259-275-1
38	490	70	1	US-10-434-842-16
39	490	70	1	US-10-005-469-1
40	490	70	1	US-10-005-469-2
41	490	70	1	US-10-005-469-6
42	490	70	1	US-10-434-842-1
43	490	70	1	US-10-434-842-2
44	490	70	1	US-10-434-842-6
45	490	70	1	US-10-434-842-15

SEQUENCE 15, App1

ALIGNMENTS

RESULT 1

```
; Sequence 15, Application US-09899046
; Publication No. US2003000B274A1
; GENERAL INFORMATION:
;   APPLICANT: 
;   TITLE OF INVENTION: New sequences of hepatitis C virus
;   NUMBER OF SEQUENCES: 270
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
;   CURRENT APPLICATION DATA:
;   FILING DATE:
;   APPLICATION NUMBER: US-09/899-046
;   PRIORITY APPLICATION DATA:
;   FILING DATE:
;   INFORMATION FOR SEQ ID NO: 35:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 401 base pairs
;   TYPE: nucleic acid
```

SUMMARIES

STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 IMMEDIATE SOURCE: NO
 CLONE: BR36-20-164
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401
 US-09-899-046-35

Alignment Scores:
 Pred. No.: 7.04e-93
 Score: 699.00
 Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 100.00%
 DB: 10

US-09-638-693-36 (1-133) × US-09-899-046-35 (1-401)

Qy 1 GluAsnGluileCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 3 CAAATGAAATCTGCTTGACACCCCCATACAAAATCATGTGGATGCATGTCAGCT 62

Qy 21 AspLeuGluValThrSerThrTrpValLeuGlyGlyValLeuAlaAlaLeuAla 40
 Db 63 GATCTGGAGTAACCACCAAGCACCCTGGTTTCTGGGGTCCCTGGCCCTAGG 122

Qy 41 AlatYrcysLeuSerValGlyCysValIleValGlyHistoleGluIleGlyLys 60
 Db 123 GCCTACTGCTTGTCAGTCGTTGTTGTTGATGTGGTCATATCGACTGGGGGAAAG 182

Qy 61 ProAlaIleVaProAspLysGluValLeuTyrGlnGlnItyAspGluMetGluGluCys 80
 Db 183 CCGCAAATGGTCAGAGAAAGGGTGTGTATGAGATGAAAGAGTGC 242

Qy 81 SerGlnAlaAlaIleProYrcysLeuGluGlnAlaGlnValleAlaHisGlnPhenylsGlyLys 100
 Db 243 TCACAAAGTGCCTCATATAATCGAACAAAGCTCAGGTAAATAATGTCACCGTGTCAAGGAAAAA 302

Qy 101 ValIleGlyLeuLeuGlnArgAlaThrGlnGlnIleValleGluProIleValThr 120
 Db 303 GNCCTTGATTTGTGCGAGGCCACCAACAAAGCTGTCATTGAGCCATAGTAAC T 362

Qy 121 ThrsAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
 Db 363 ACCAACTGGCARAAAGCTGAGGCCACCAACAAAGCTGTCATTGAGCAAAAGCT 401

RESULT 2
 US-09-878-281-35
 ; Sequence 35, Application US/09878281
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878,281
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; INFORMATION FOR SEQ ID NO: 35:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 401 base pairs

RESULT 3
 US-09-899-046-37
 ; Sequence 37, Application US/09899046
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; NUMBER OF SEQUENCES: 270
 ; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.
 ; COMPUTER READABLE FORM:
 ; COMPUTER: IBM PC compatible
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/899,046
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; INFORMATION FOR SEQ ID NO: 37:
 ; SEQUENCE CHARACTERISTICS:

LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 IMMEDIATE SOURCE:
 CLONE: BR36-20-166
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3 .. 401
 US-09-899-046-37

Alignment Scores:
 Pred. No.: 1.05e-91 Length: 401
 Score: 691.00 Matches: 132
 Percent Similarity: 99.25% Conservative: 0
 Best Local Similarity: 99.25% Mismatches: 1
 Query Match: 98.86% Indels: 0
 DB: 10 Gaps: 0
 US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 3 CAAATGAATCTGTGACACCCCATACAAATAATCATCGTCATGCAGCT 62

QY 21 AspLeuGluValThr-ThrSerThrTrpValLeuGlyGlyValLeuAla 40
 Db 63 GATCTGGAACTAACCAACGACCCTGGTTGCTGGAGGGCTCTGGGCCCTAGCG 122

QY 41 AlaTyrCysLeuSerValGlyCysValValLeuGlyHisIleGluLeuGlyLys 60
 Db 123 GCCTACTGCTGTCAGTCGGTGTTGCTATCGAGCTGGCATATGGG 182

QY 61 ProAlaIleValProAspIleGluValLeuThrGlnGlnArgAlaGlnValLeuAla 80
 Db 183 CGGAAATGTTCCAGAACAGAGGTGTTCTACAAATAGATGAGTGGAGAGTC 242

QY 81 SerGlnAlaAlaProTyrlieGluGlnAlaGlnValLeuAlaLysGlyLys 100
 Db 243 TCACAGCTGCCCATATATCGAACAAAGCTCAGGTGATGCTCACAGTCAGAAAA 302

QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProIleValThr 120
 Db 303 GTCCCTGGATTGCTGAGGCCACCAACAAAGCTGATTGACGCCATAGTA 362

QY 121 ThreonTrpGlnLysLeuGluAlaPheThrPhiSlyPhiS 133
 Db 363 ACCACTGGCRAANGCTGAGGCCTTTCGACAGCAT 401

RBSULT 4
 US-09-899-046-39
 ; Sequence 39, Application US/09899046
 ; Publication No. US20030008274A1

GENERAL INFORMATION
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/899,046
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/362,455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:
 LENGTH: 401 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI -SENSE: NO
 IMMEDIATE SOURCE:
 CLONE: BR36-20-165
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 3..401
 US-09-899-046-39

Alignment Scores:
 Pred. No.: 1.05e-91 Length: 401
 Score: 691.00 Matches: 132
 Percent Similarity: 99.25% Conservative: 0
 Best Local Similarity: 99.25% Mismatches: 1
 Query Match: 98.86% Indels: 0
 DB: 10 Gaps: 0
 US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
 Db 3 CAAATGAATCTGTGACACCCCATACAAATAATCATCGTCATGCAGCT 62

QY 21 AspLeuGluValThr-ThrSerThrTrpValLeuGlyGlyValLeuAla 40
 Db 63 GATCTGGAACTAACCAACGACCCTGGTTGCTGGAGGGCTCTGGGCCCTAGCG 122

QY 41 AlaTyrCysLeuSerValGlyCysValValLeuGlyHisIleGluLeuGlyLys 60
 Db 123 GCCTACTGCTGTCAGTCGGTGTTGCTATCGAGCTGGCATATGGG 182

QY 61 ProAlaIleValProAspIleGluValLeuThrGlnGlnArgAlaGlnValLeuAla 80
 Db 183 CGGAAATGTTCCAGAACAGAGGTGTTCTACAAATAGATGAGTGGAGAGTC 242

QY 81 SerGlnAlaAlaProTyrlieGluGlnAlaGlnValLeuAlaLysGlyLys 100
 Db 243 TCACAGCTGCCCATATATCGAACAAAGCTCAGGTGATGCTCACAGTCAGAAAA 302

QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProIleValThr 120
 Db 303 GTCCCTGGATTGCTGAGGCCACCAACAAAGCTGATTGACGCCATAGTA 362

QY 121 ThreonTrpGlnLysLeuGluAlaPheThrPhiSlyPhiS 133
 Db 363 ACCACTGGCRAANGCTGAGGCCTTTCGACAGCAT 401

RESULT 5
 US-09-878-281-37
 Sequence 37, Application US/09878281
 ; Publication No. US20030032005A1

GENERAL INFORMATION
 APPLICANT:
 TITLE OF INVENTION: New sequences of hepatitis C virus
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/899,046
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/09/878,281
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 39:

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 STREET: 1211 East Morehead Street
 CITY: Charlotte
 STATE: No. US20030198946Alt Carolina
 COUNTRY: United States

ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0. Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/396,964
 FILING DATE: 23-MARCH-2003
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/244,116B
 FILING DATE: 15-JULY-1994
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB92/02143
 FILING DATE: 20-NOV-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 1749-125
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 704-377-1561
 TELEFAX: 704-334-2014
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis-C virus

US-10-396-964-16

SEQUENCE CHARACTERISTICS:

LENGTH: 367 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis-C virus

US-09-638-693-36 (1-133) × US-10-396-964-16 (1-367)

SEQUENCE CHARACTERISTICS:

LENGTH: 367
 Pred. No.: 2.69e-74
 Score: 572.00
 Percent Similarity: 94.87%
 Best Local Similarity: 94.87%
 Query Match: 81.83%
 DB: 14
 Gaps: 0

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

US-09-638-693-36 (1-133) × US-09-742-659-3 (1-964)

SEQUENCE CHARACTERISTICS:

LENGTH: 964
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

Qy 108 AlaThrGlnGlnAlaValIleGluProLeuAlaThrThrSer 27
 Db 305 GCCACCCAAACARGCUGUYAUTGGCCMAUAGUAGCCACGGCA 355

RESULT 14
 US-09-742-659-3
 ; Sequence 3, Application US/09742659
 ; Patent No. US2003034019A1
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: Hong, Zhi
 ; APPLICANT: Butkiewicz, Nancy J.
 ; APPLICANT: Zhong, Weidong
 ; APPLICANT: Ingavillo, Paul
 ; APPLICANT: Wright-Minogue, Jacqueline
 ; APPLICANT: Lemmon, Stanley M.
 ; TITLE OF INVENTION: ChimERIC HCV/GBV-B viruses
 ; FILE REFERENCE: ID01116
 ; CURRENT APPLICATION NUMBER: US/09/742,659
 ; CURRENT FILING DATE: 2000-12-21
 ; PRIOR APPLICATION NUMBER: US 60/171,469
 ; PRIOR FILING DATE: 1999-12-22
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 3
 ; LENGTH: 9646
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 US-09-742-659-3

Alignment Scores:
 Pred. No.: 2.26e-67
 Score: 539.00
 Percent Similarity: 83.46%
 Best Local Similarity: 75.94%
 Query Match: 77.11%
 DB: 9

Qy 1 GlnAsnGluIleCysLeuThrHisProLeuThrIleMetAlaCysMetSerAla 20
 Db 5235 CAGATGAAGTCACCCGACCCAACTCACCAATACTCATGCATGCC 5294

Qy 21 AspLeuGluValThrThrSerThrPvalLeuGlyValLeuAlaAlaLeuAla 40
 Db 5295 GACCTGGAGGTGCTACGAGCACCTGGGCTGCTGGCCGCTGCTGGTGTGGCC 5354

Qy 41 AlaTyrcysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyDlyLys 60
 Db 5355 GCGRATTGCGCTGTCACGGCTGCTCATGGGAGGATGTCATGGGAGGATTGTCGCCGGAAG 5414

Qy 61 ProAlaIleValProAspIlysGluValLeuTyrglnGlnGlnArgGluMetGluGluCys 80
 Db 5415 CGGGATTATACTGACGGAGTTCTACGGAGTTCTACGGAGGTTTCGATGAGATGGAACTGAG 5474

Qy 81 SerGlnAlaAlaProTyryleGluClnAlaGlnValIleAlaAlaGlnDheLyGlyLys 100
 Db 5475 TCTCGGCACCTAACCTGACATCGAGGAGATGATGCTGCTGAGCAGITCAAGGAGAA 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProLeuThr 120
 Db 5535 GCCTTGCGCTCCTGAGACCCGTCGCCGCAAGGAGGTTTACCCCTGCTGTCCAG 5594

Qy 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
 Db 5595 ACCACTGGCGAAACTGAGCTCTGCGGAGGCG 5633

RESULT 15
 US-09-238-076-1
 ; Sequence 1, Application US/09238076
 ; Patent No. US20020102540A1
 ; GENERAL INFORMATION:

APPLICANT: RICE, CHARLES et al.
 TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: HOWELL & HAERKAMP, L.C.

STREET: 7733 FORSYTH BLVD., SUITE 1400
 CITY: ST. LOUIS
 STATE: MO
 COUNTRY: USA

ZIP: 63105

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.3.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/238,076

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/034,756

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: HOLLAND, DONALD R.

REGISTRATION NUMBER: 35,197

REFERENCE/DOCKET NUMBER: 6029-4831

TELECOMMUNICATION INFORMATION:

TELEPHONE: 314-727-5188

TELEFAX: 314-727-6092

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 9646 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-09-238-076-1

Alignment Scores:

Pred. No.:

Score: 2.26e-67

Length: 9646

Matches: 101

Percent Similarity: 83.46%

Conservative: 10

Best Local Similarity: 75.94%

Mismatches: 22

Query Match: 77.11%

Indels: 0

DB: 9

Gaps: 0

US-09-638-693-36 (1-133) x US-09-238-076-1 (1-9646)

Qy 1 GluAsnGluValLeuThrHisProLeuLysThrLeuMetAlaCysMetSerAla 20

Db 5235 CAGAATGAACTAACCCCTGACGCCCATCACAAATACTATGAGATGCGGC 5294

Qy 21 AspLeuGluValThrThrSerThrTyrValLeuLeuGlyIleValLeuAlaLeuAla 40

Db 5295 GACCTGAGGTGTCAGAGCACCTGGTGTGCGAGTCCTGCGTCCTGGCC 5354

Qy 41 AlaTyrcysLeuSerValGlycysvalvalIvalGlyHisIleGluLeuGlyLys 60

Db 5355 GCGTATTCCTCTCAACAGGTCGCTCATAGTGGCAGGATTGTCTCCGGAAAG 5414

Qy 61 ProAlaLeuValProLeuGluValLeuAlaGlnValLeAlaHisGlnPheLeysGly 80

Db 5415 CGGGCAATTATACTGAGGAGGTTCTACAGAGTGATGATGATGAGATGAGATGAGTC 5474

Qy 81 SerGlnAlaAlaProTrpLeuGluGlnAlaGlnValLeAlaHisGlnPheLeysGly 100

Db 5475 TCTCAGACTAACCGTACATCCAGCAGGGATGATGCTGAGCTGAGCAAG 5534

Qy 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeGluProLeuValThr 120